CONSTRUCTION NEWS

Some of the Week's Large Projects

AMONG the announcements for the current week are the following:

Proposed Work

Tunnel, Michigan and Ontario, Detroit River Subways Co., making plans, $10,000,000.

Hotel and store, Chicago, Ill., Allied Building Corp., having plans prepared and takes bids about Sept. 23, $1,000,000.

Office, Birmingham, Mich., J. Couzens, having sketches made, $1,000,000.

Power plant, Rochester, N. Y., Rochester Lake Ontario Water Co., having plans prepared, $1,000,000.

Church, Wash., D. C., Allen & Collins, archts., takes bids about Sept. 1, for Universalist Nat'l Memorial Church, $1,000,000.

Factory, Mississippi and Tennessee, Kraft Cheese Co., plans, $1,000,000.

Bids Desired

Y.M.C.A., Philadelphia, Pa., Sept. 12, by L. E. Jallade, archt., $1,500,00.

Office, Philadelphia, Pa., Sept. 9, by R. B. Bencker, archt., for N. W. Ayer & Son, $1,000,000.

Contracts Awarded

Factory, Old Hickory, Tenn., Dupont Rayon Co., will build by day labor, $4,000,000.

Mercantile and office, San Antonio, Tex., Smith Bros. Properties, Inc., to McKenzie Constr. Co., $1,500,000.

Club, Washington, D. C., Queensbury Building, to Miller Engr. Co., archts., est., $1,250,000.

News of the Week

Waterworks

Proposed Work

N. C., Raleigh—Making plans concrete settling basin. $50,000. C. C. Page, city comr.

N. C., Wilson—See "Sewers."

Miss., Magee—Making preliminary plans complete waterworks and distribution system, also sewers in various streets. $75,000. M. L. Culley, 1st Natl. Bank Bldg., Jackson, engr.

O., Barberton—Bd. Control takes bids about Oct. 17, mains in various streets. $75,000.

O., Columbus—B. A. Young, asst. clk. Bd. Comrs. Franklin Co. soon takes bids 7,845 ft. 8 in. and 860 ft. 6 in. c.i. mains, etc., in Sewer Dist. Marion 1, Impvt. 90, Marion Twp. $15,000. E. G. Bradbury, Court House Annex, co. engr.

Ill., Columbia — Making preliminary plans complete waterworks and distribution system. $75,000. W. A. Fuller Co., 1912 Railway Exch. Bldg., St. Louis, Mo., engrs.

Ill., Waverly—Making preliminary plans complete waterworks and distribution system. $50,000. W. A. Fuller Co., 1912 Railway Exch. Bldg., St. Louis, Mo., engrs.

S. D., Huron—City, M. F. Walt, aud., making plans filtration plant addition, incl. equipment. $75,000. L. P. Wolff, 900 Globe Bldg., St.. Paul, Minn., engr.

Tex., Devine—City plans 50,000 gal. elevated tank and 100,000 gal. earth reservoir. $50,000.

Okla., Chickasha—Voted $90,000 bonds, extending mains in various streets. R. O. Bradley, Chickasha, engr. Noted Feb. 17.

Okla., Fairfax—Made preliminary plans extending 6,500 lin.ft. 6 and 8 in. mains in Donelson Addition. $15,000. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs.

Okla., Fairview — Voted $38,500 bonds, 20,700 ft. 6 and 8 in. mains in various streets. J. Francis, Fairview, engr.

Okla., Wewoka—Voted $125,000 bonds, new gravity type filter plant, 3 motor driven centrifugal pumps, main extensions, etc. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs.

Calif., Santa Ana—E. L. Vegely, city clk., making plans mains in South Bway., South Main and South Burch Sts., etc. $25,000 or more.

Bids Desired

R. I., Providence—Sept. 12, by Bd. Contr. & Supply, City Hall, pumping station, on Bath St. $30,000. Thomas J. Hill Pierce, City Hall, engr.

N. Y., New York — Sept. 6, by N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., mains in Beach, Cromwell, Fowler, Grosvenor, Harper, Harrods Sts., etc., Bronx Boro.

Pa., Allentown—Sept. 27, by M. W. Gross, mayor, 301 Central Fire & Police Station, low lift pumping equipment and piping for Dept. Parks & Pub. Property, Bureau of Water. Morris Knowles, Inc., 507 Westinghouse Bldg., Pittsburgh, engrs.; adv. E. N.-R. Sept. 1.

S. C., Lancaster — Sept. 27, by Comrs. Pub. Wks., complete filter plant, 1 m.g.p.d. 9,700 lin.ft. 6- to 12-in. c.i. pipe, one 1,000 g.p.m. electrically driven centrifugal pump, also 150,000 or 200,000 gal. steel tank and tower. H. S. Jaudon Eng. Co., Lancaster, engrs.

La., Monroe—Sept. 21, by City Comrs., Town Hall, improving waterworks, Contrs. 1 to 7 (inclusive). Burns & McDonnell Eng. Co., Interstate Bldg., Kansas City, Mo., engrs.; adv. E. N.-R. Sept. 1. Noted Aug. 11.

La., Shreveport—Taking bids probably in October, sewers draining into Red River, pumping station, also water mains in west side $200,000. Private plants. Noted Mar. 24.

THESE reports are grouped under each class (water-works, sewers, etc.) and under each stage of the work (proposed, bids desired, etc.), according to the following geographic sections: New England, Middle Atlantic, South, Middle West, between Mississippi and Rocky Mountains, Far West, and Canada.

Where name of official is not given inquiries should be addressed to City Clerk, County Clerk, or corresponding official.

O., Cleveland—Sept. 2, by City, mains in West 12th St., Irving Pl., South Hills Dr., Flamingo, Garwood, Mayview, Plymouth and Redding Aves. To exceed $25,000. R. Hoffman, City Hall, engr.

Ill., Niles Center — Sept. 6, by Village, Laramie-Brummel Water Mains, incl. 6- to 12-in. c.i. pipe, etc. $26,700. Consoer, Older & Quinlan, 140 South Dearborn St., Chicago, engrs.

Neb., Comstock—Sept. 8, by C. D. Wardrobe, city clk., 40,000 or 50,000 gal. tank on 100 ft. to balcony tower, erected on foundations; 11,184 ft. 4- to 8-in. Class B, McWane open bell, De Lavaud Class 120, or Mono Class 150 c.i. pipe; approximately 4.5 tons c.i. specials f.o.b. Comstock, 23 hydrants, etc. Henningson Eng. Co., Natl. Bldg., Omaha, engrs.

Neb., Union—Sept. 12, by C. B. Smith, village clk., 40,000 or 50,000 gal. tank on 90 ft. tower, 6,864 ft. 4- to 8-in. Class B, DeLavaud Class 150 or Mono Class 150 c.i. pipe, approximately 2.5 tons c.i. specials f.o.b. Union, one 8 in. or 10 in. tubular well 125 ft. deep, 12 ft. strainer, etc. To exceed $15,000. Henningson Eng. Co., Natl. Bank Bldg., Omaha, engrs. Noted June 30.

B. C., Vancouver — See "Contracts Awarded."

Contracts Awarded

Conn., Hartford—Bd. City Water Comrs., Municipal Bldg., laying 3 mi. 30 in. mains in various streets, to Lock Joint Pipe Co., Ampere, N. J., $153,375; c.i. pipe, to R. D. Wood & Co., 514 Walnut St., Phila., Pa., $6,280; c.i. pipe, to Amer. Cast Iron Pipe Co., Acipico St., Birmingham, Ala., $5,686; valves, to Ludlow Valve Mfg. Co., Troy, N. Y., $2,599; special castings, to United Cast Iron and Fdry. Co., $4,244; also wrought iron pipe, to Cohoes Rolling Mill Co., Cohoes, N. Y., $2,338. Grand total $174,522. Noted July 28.

N. Y., Poughkeepsie — Bd. Pub. Wks., Eastman Park Mansion, rein.-con. structure, and placing pipe, valves, strainers, etc., for additional scrubbers, Poughkeepsie Waterworks, to W. W. Kingston, 1 Washington St. Noted July 21.

N. J., Belmar—Mains in Rhode Island Point Sect., to W. G. Fritz Co., 69 Main St., West Orange, $23,630. Noted Aug. 18.

O., Dayton—Montgomery Co., 25,270 ft. 4- to 12-in. c.i. mains, etc. in H. McKinley Water Supply System, to F. Krumholtz, 1020 Superior Ave., $52,816.

Ill., Monmouth—City, 120 x 70 x 12 ft. rein.-con. storage reservoir, to H. C. Holmes, Macomb, $19,967. Engrs. est. $20,000. Noted July 28.

Ill., Niles Center—Waterworks improvements, incl. hydrants, valves, basins, 6 and 8 in. c.i. pipe, etc., in various streets, to N. Santucci, Niles Center, $36,698; and 22,500 ft. 1 in. water service pipe, etc., to O'Brien Bros., 152 North Central Ave., Chicago, $21,813.

Ill., Villa Park—Waterworks supply, to S. B. Geiger & Co., 1435 Old Colony Bldg., Chicago, $80,000.

Wis., Waunakee—M. Helt, city clk., waterworks, to Camden Constr. Co., Minneapolis, Minn., $18,509; and drilling 12 in. well, to Gray Well Drilling Co. 209 3rd St. Milwaukee. Engrs. est. $20,000.

Kan., Topeka—Extending 43,082 ft. 4- to 10-in. c.i. mains, etc. in various streets, to C. B. Ramsey, 931 North Main St., $73,030.

Ark., Springdale—For 14,000 ft. 8 in. McWane pre-caulked pipe, and 1 m.g. filtration plant, to Rowan & Rickard, Harrison, at $0.34½ per ft. and $11,595 respectively; two 350 g.p.m. low stage pumps with motors, one 350 g.p.m. turbine pump and 45 h.p. electric motor, to Fairbanks-Morse & Co., 900 South Wabash Ave., Chicago, Ill. $1,783; also filter plant equipment, to Roberts Filter Co., Darby, Pa., $7,750. Noted Aug. 11.

Tex., Odessa — Improving waterworks, 100,000 gal. tank and tower, to Chicago Bridge & Iron Wks., and 40,000 ft. c.i. pipe, to Central Fdry. Co., both Praetorian Bldg., Dallas.

Wash., Chehalis—For 5 m.g. concrete reservoir, to Graham Bros. & Medley, Chehalis, $65,001. Engrs. est. $75,000. Noted May 19.

B. C., Vancouver—Greater Vancouver Water Dist. Bd., will excavate (1st unit) 30,000 cu.yd. for storage reservoir, at Van-

See proposal advertising on page 141

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TRADE **"LEADITE"** MARK

Registered U. S. Pat. Office

Even under the most rigorous conditions of service Leadite proves its efficiency

—where a line is subjected to constant vibration the joints must be tight and remain tight

IN installing the 12" bell and spigot bridge line illustrated here the element of constant vibration was a serious consideration.

Leadite was used for jointing and has given perfect satisfaction throughout the 5½ years since this Bridge Line was installed—working pressure approximately 105 lbs. per sq. in.

This water department has laid many miles of cast iron water mains with Leadite joints—sizes 6" to 30"—pressures ranging from 40 pounds to 170 pounds per square inch. They say their experience with Leadite has been extremely satisfactory. Their experience with Leadite extends over 20 years.

The ease with which Leadite can be used is another consideration with waterworks engineers in making their specifications for unusual and difficult installations, as well as for general work.

The speed of jointing with Leadite is of great importance to Contractors in helping them complete their work promptly. From experience they know how much time they can save by using Leadite.

Everywhere waterworks engineers specify and use Leadite for the satisfaction it gives, its safety, security and economy.

Twelve-inch c. i. bell and spigot water main —Bridge Line—over 500 feet long—subject to severe vibration—carrying approximately 105 lbs. pressure per square inch.

Specify and use LEADITE It saves at least 75%

Be sure it is LEADITE and accept no imitations

The pioneer self-caulking material for c. i. pipe. Tested and used for over 30 years.

THE LEADITE COMPANY . . Land Title Building . . PHILADELPHIA, PA.

NO CAULKING

Waterworks (Continued)

couver Heights, by day labor. $125,000. Total $650,000. E. A. Cleveland, 500 Beatty St., engr.

Sewers

Proposed Work

Pa., Laurelton—Laurelton State Village plans sewage disposal plant. G. S. Idell, 1510 Chestnut St., Phila., engr.

N. C., Wilson—Plans approximately 24,000 ft. sewer and 16,000 ft. waterworks extensions. R. D. Gladding, Wilson, engr.

Miss., Magee—See "Waterworks."

O., Kenmore — Bd. Control takes bids about Sept. 17, approximately 36 in. sewers in Foust Rd., 4th St., 16th Ave. and Kenmore Blvd.

O., Marion—Bd. Control plans extending and constructing new sewers in various streets. $800,000.

O., New Boston (sta. Portsmouth)—Made plans 4,550 ft. 18 and 20 in. vitr. sewer in North Moreland St., $27,000; also main sewer outlet, 1,035 ft. 66 in. double ring brick pipe, $39,000. J. D. Wilson, 1417 Grandview Ave., Portsmouth, engr.

Ill., Columbia — Making preliminary plans complete sewerage system, incl. sewage disposal plant. $75,000. W. A. Fuller Co., 1912 Railway Exch. Bldg., St. Louis, Mo., engrs.

Ill., Waverly—Making preliminary plans complete sanitary sewerage system, incl. disposal plant. $50,000. W. A. Fuller Co., 1912 Railway Exch. Bldg., St. Louis, Mo., engrs.

Wis., Milwaukee—Metropolitan Sewerage Comn., 508 Market St., made plans 5,286 ft. 15 and 18 in. vitr. clay main sewer through Washington Highlands. $50,000. R. Cramer, 508 Market St., ch. engr.

Minn., Perham—A. W. Lotterer, city clk., making plans combined sewerage system. $80,000. Druar & Milinowski, 500 Globe Bldg., St. Paul, engrs.

Neb., Fremont—Soon takes bids storm sewers, etc. in various streets. $200,000. Burns & McDonnell Eng. Co., 401 Interstate Bldg., Kansas City, Mo., engrs. Noted June 23.

Neb., Prague—Making preliminary plans 8- to 12-in. sewers in various streets, and sewage disposal plant. $25,000. Henningsom Eng. Co., Natl. Bank Bldg., Omaha, engrs.

Okla., Wewoka — Voted $60,000 bonds, sewers in various streets. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs.

Okla., Shawnee—Made preliminary plans 16,000 ft. 8- to 12-in. vitr. clay sewers in Belmont Addition. $36,000. F. D. Brown, Shawnee, engr.

Calif., San Mateo—Made plans 11,960 ft. 4- to 10-in. vitr. sewer in portions South B St. ,Tulip Ave., etc. O. F. Weissgerber, city engr.

Bids Desired

Mass., Salem—Sept. 7, by South Essex Sewerage Bd. Fort Ave., Sect. 7 of Trunk Sewer 4,150 lin.ft., 30 x 42 and 33 x 34 in. concrete sewer, in Beverly and Danvers. Private plans.

Mass., Wellesley—Taking bids sewers in various streets. $60,000 appropriated. Private plans. Noted Mar. 31.

Mass., West Roxbury (br. Boston) — Sept. 2, by Dept. Pub. Wks., Boston, sewerage works in Nikisch Ave., Stimson, Grove and Birchwood Sts., here. $25,000. J. H. Sullivan, comr.

N. Y., Long Island City—Sept. 6, by M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., sewer in Roosevelt Ave. from 79th (22nd) to 84th (27th) Sts.

N. J., Hammonton—Sept. 12, at Town Hall, W. R. Seely, clk., approximately 2,831 lin.ft. storm sewer, etc. in various streets. J. A. Baker, engr.; adv. E. N.-R. Sept. 1.

Ia., Marshalltown—Sept. 7, by A. McMahon, city clk., City Hall, 16,524 ft. 15- to 48-ft. vitr. clay, concrete or segmental block sewers in Dists. 1, 2, 7, 8, 9 and 10. Noted Aug. 25.

Mo., St. Louis—Sept. 20, by Bd. Pub. Serv., 208 City Hall, constructing Highland Joint Sewer, 5,970 ft. 12- to 66-in. vitr. clay, brick or segmental block pipe, etc., $66,000; and Arloe Sewer Dist. 5, 3,060 ft. 8- to 42-in. pipe, $9,200. W. W. Horner, 300 City Hall, engr.

Ark., Conway—Sept. 8, by W. D. Cole, chn. comn., 17,180 ft. 8- to 12-in. vitr. clay and 18,343 ft. 12- to 18-in. c.i. sewers, etc. in Impvt. Dist. 2. W. L. Winters, Fort Smith, engr. Noted July 14.

Calif., Fullerton—F. C. Hezmalhalch, city clk., taking bids 2 mi. 12 in. vitr. or concrete sewer in West Commonwealth Ave., etc. C. M. Thorpe, city engr.

Ont., Stamford—Sept. 2, by M. F. Ker, engr., Niagara Falls, 4 mi. 9- to 33-in. vitr. tile and concrete sewers in various streets, here. $100,000.

Bids Received

Mich., Detroit—Dept. Pub. Wks., Fisher Ave. Storm Sewer in Fisher Ave. and Memorial Park, from Lennane & McIlvenna, 7777 West Chicago Blvd., $579,979; and Connors-State Fair Arm, Connors Creek Sewer, from Central Contg. & Eng. Co., 17576 Wyoming Ave., $195,327.

Contracts Awarded

Conn., Mansfield — Trustees Mansfield Training School, sewers, sludge and filter beds, also concrete tank, to L. Suzio Constr. Co., State and Brooks Sts., Meriden, for State. $55,529. Noted July 28.

N. Y., Long Island City—M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., regulator chamber, incl. automatic regulator, repairing and cleaning overflow chamber at Rust St. and Clark Ave., etc., to Moore Eng. & Contg. Co., 1 Bridge Plaza North, $11,660. Noted July 21.

N. Y., Rye — Westchester Co. Sanitary Sewer Comn., 192 Martine Ave., White Plains, contracts for construction Sects. A, B, C, D and E, comprising Blind Brook Sewer Project, have been signed as follows: Sect. A, to A. Di Marco, Park Ave., White Plains, $30,437; Sect. B, to Merritt, Chapman & Scott, 17 Battery Pl., New York City, $273,000; Sect. C, to Shevlin Eng. Co., Maspeth; and Sects. D and E, to H. L. O'Dell, Rye, $4,786 and $726 respectively. Noted July 21.

N. J., Bridgeton—C. P. Corey, city clk., City Hall, new sewage disposal plant, here, to Mazzolan & Marano, 739 South 7th St., Phila., Pa., $280,000. Noted July 2.

N. J., Teaneck (mail West Englewood) —Tw- Comn., Municipal Bldg., Teaneck Rd., 10,000 ft. 8- to 12-in. sewers in various streets, Contr. Y, to J. Cestone, Montclair. Noted July 21.

Md., Baltimore—Bd. Awards, 2,460 ft. 12 ft. 1 in. x 15 ft. 8 in. brick and concrete arch drain, 4,068 ft. 18 and 21 in. vitr. sewer, 4,060 lin.ft. 4- to 8-in. underdrain, etc., in Sewer Dists. 3 and 48, Contr. 209, to Catalano & Percora, Oldtown Natl. Bank Bldg., $135,669.

O., Columbus—O. Moore, clk. Franklin Co., Minerva Lake Sanitary Sewerage Disposal Plant, 27,590 ft. 8- to 20-in. vitr. clay pipe, etc., in Mifflin Twp., to H. B. Watters & Co., 180 North High St., $57,791. Noted July 21.

O., Dayton — Montgomery Co., Court House, 21,893 lin.ft. 8 and 10 in. vitr. sewers, etc. in McKinley Sanitary Sewer Dist. Sect. B, to V. Smith, 209 South Perry St., Dayton, $44,352.

O., Parma (br. Cleveland) — Sewers in Group "J," to Langenhan Constr. Co., Marshall Bldg., Cleveland, $44,200.

Ill., Niles Center—For 12 in. sewers in various streets, to N. Santucci, Niles Center, $17,195; and 17,730 ft. 8 in. vitr. sewers in various streets, to P. J. Collins, Chicago, $19,525.

Wis., Milwaukee—Sanitary sewers in Ames Terrace, Silver Spring Rd., Como Pl., Ralph Ave., etc., to H. T. Teget, Webster City, Ia.

Wis., Waunakee—Sewerage system, to J. D. Bernadi, Sault Sainte Marie, Mich., $24,710. Engrs. est. $25,000.

Mo., Springfield—Sewer in Dist. 12, Sect. 6, to R. L. Langston, R.R. 3, $23,112.

Ark., Pine Bluff — Complete sewerage system, in Sewer & Water Dist. 2, to J. R. McNulty, 2121 Cherry St., $29,500. Noted June 23.

Tex., Galveston—Main trunk sewer, etc., in 47th St. between Avenues U and J, and 46th St. between Avenue J and outfall at Slip C, to W. A. Kelso, 2215½ B St., $74,486. Noted Aug. 25.

Okla., Oklahoma City—For 14,000 ft. 8 and 10 in. lateral sewers in Sunrise Addition, to H. M. House, 1206 West Main St., $24,945. Engrs. est. $27,000.

Calif., Los Angeles — Los Angeles Co. Sanitation Dist. 1, for Mt. View-Belle View Vernon trunk sewer, to Bebek & Brkich, 425 West 78th St., $45,405; also Bullis Road-Temple St. trunk sewer, to Dalmatin & Nikcevich, 1105 West E St., Wilmington, $36,275.

Calif., Los Angeles—Main sewer, house connections, etc. in Fox Hills Dr. between Missouri and Lauriston Aves., to J. Chutukk Wilcox Bldg., $40,845; also sanitary sewer in Keswick Ave. between Fox Hill Dr. and Beverly Glen Plvd., to L. Miletich, 610 West 54th St., $37,225.

Calif., Redwood City — Vitr. sewers in southern section city, to R. B. McNair, 3819 Rhoda Ave., Oakland, $69,425.

Calif., Sacramento—Sewerage system in Sect. 2-A, to J. E. Tempest, 1450 44th St., $154,533; also in Sect. 2-B, to Pollock & Gould, Forum Bldg., $154,383.

Calif., Los Angeles—Sewer in Indiana St. between 1st St. and Mines Ave., to P. J. Akmadzich, 320 Wilcox Bldg., $221,178 engrs. est. $301,427; also in 105th Ave. between Figueroa and Vermont Aves., to J. Chutuk, 343 Wilcox Bldg., $43,400 engrs. est. $52,241. Noted May 19.

Bridges

Proposed Work

Miss., Aberdeen—Monroe Co. plans rein.-con. and steel bridge across Tombigbee River, $60,000.

O., Canton—Stark Co. plans new concrete bridge, 12th St. N.W. $50,000. A. M. Wise, Canton, engr.

O., Dresden—Muskingum Co. (Zanesville) —plans 150 ft. steel and concrete bridge over Wakatonik Creek, here. $35,000. A. Connor, Zanesville, engr. State appropriates toward cost.

Oklahoma—State Hy. Dept., Oklahoma City, making preliminary plans 1 span 116 ft. steel truss bridge on piers over Cooper Creek, near Stillwater, Payne Co., $45,000; and 1 span 96 ft. steel truss bridge on piers over Brush Creek near Yale, Payne Co., $35,000, both on Highway 1. C. R. Mandigo, Capitol Bldg., Oklahoma City, engr.

Okla., Hinton—Caddo Co. making preliminary plans 1 span 80 ft. steel truss bridge on piers over Piney Creek, near here. $35,000. C. Riggins, Anadarko, engr.

Okla., Tulsa—Making preliminary plans 1 span 88 ft. viaduct, over Midland Valley R.R. tracks, on Woodward Blvd. in South Tulsa. $42,000. C. Schultz, City Hall, engr.

Calif., Stockton—San Joaquin Co. making plans 750 ft. steel and rein.-con. bridge, 20 ft. roadway. $35,000. F. E. Smith, Stockton, co. surv.

Ont., Walkerville—Making plans new steel and concrete bridge over railway tracks, on Sandwich St. $100,000. H. W. Patterson, Imperial Bldg., engr.

Bids Desired

Rhode Island—Sept. 14, at office Washington Bridge Comn., A. L. Atwood, chn., Providence, Washington Bridge over Seekonk River between Providence and East Providence; adv. E. N.-R. Sept. 1.

N. Y., St. George — Sept. 7, by J. A. Lynch, pres. Richmond Boro, Boro Hall, constructing bridge at Arthur Kill Rd. south of South Richmond Valley Rd.

Maryland — Sept. 6, by State Roads Comn., Baltimore, rein.-con. arch bridge over Morgan Run, Contr. C1-71, Carroll Co., and one over Little Antieta Creek, Contr. W-50, Washington Co.; 3 bridges over Georges Creek, Contrs. A-49, A-50 and A-51, all in Allegany Co. J. N. Mackall, chn.; adv. E. N.-R. Sept. 1.

Fla., Sanford—See "Streets and Roads."

Ohio—Sept. 9, by G. F. Schlesinger, dir. Highways & Pub. Wks., Columbus, bridges in Adams, Allen, Ashland, Champaign, Columbiana, Hamilton,Muskingun, and Washington Counties.

Michigan—Sept. 3, by G. D. Tramp, resident engr., Crystal Falls, Bridge 1 of 66-6-2, Contrs. 1 and 2, one 75 ft. span, Ontonogan Co., for State Hy. Dept., Lansing. $27,000.

Michigan—Sept. 6 (extended date), at Genesee Co. Road Office, Flint, S. R. Bridge 1 of 25-7-23, Contr. 1, five 45 ft. steel deck girder span, T. L. Bridge 1 of 25-16-5, Contrs. 1 and 2, five 45 ft. spans, etc. R. W. Roberts, 504 Eddy Bldg., Saginaw, resident engr. Noted Aug. 26.

Michigan — Sept. 8, by C. L. Cowgill, resident engr., Plymouth, F. A. Bridge 2, Contrs. 1 and 2, two 50 ft. span, Macomb Co., for State Hy. Dept., Lansing.

Texas — Sept. 7, by State Hy. Comn., Austin, thirty-five 40½ ft. I-beam steel and three 40½ ft. I-beam concrete span bridge, 738,720 I-beam steel, 168,326 lb. reinforcing, 6,956 ft. concrete piling, etc., over Pease River on State Highway 5, Wilbarger Co. $165,000. J. B. Nabors, Vernon, engr.

Texas — Sept. 8, by State Hy. Comn., Austin, R. S. Sterling, chn., two 160 ft. steel spans and twelve 26 ft. rein.-con. girder spans approaches, incl. 380,000 lb. structural steel, 171,401 lb. reinforcing, 3,210 ft. 14 and 16 in. piling, etc., on San

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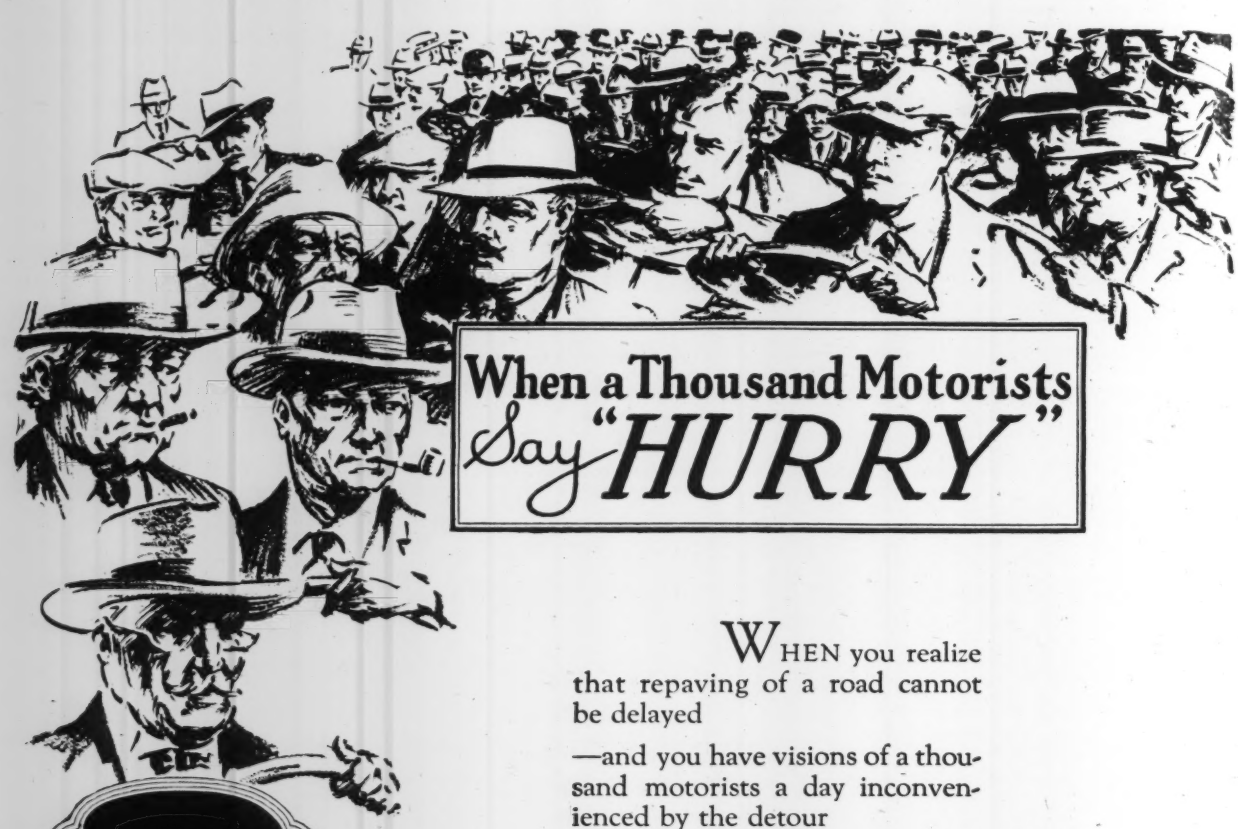
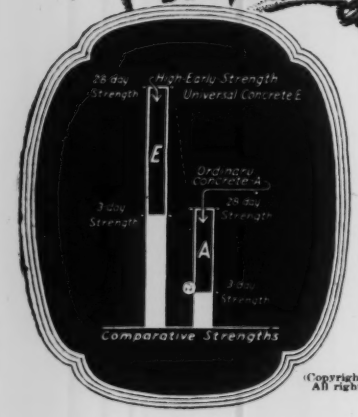


When a Thousand Motorists Say "HURRY"



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—and you have visions of a thousand motorists a day inconvenienced by the detour

—and you wonder how you can answer their "Hurry" call without sacrificing the quality of the pavement

—use *High-Early-Strength Universal Concrete!*

Made with the *usual* materials, *usual* labor, *usual* equipment and standard Universal cement, this concrete has a *3-day* strength equal to the *28-day* strength of ordinary concrete.

Having a higher *ultimate* as well as a higher *early* strength, it also is *permanently* better and stronger than ordinary concrete as shown in the diagram.

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UNIVERSAL PORTLAND CEMENT CO.
210 South La Salle Street, Chicago
Without obligation, please send me details of methods of securing strong concrete in 3 days with the usual materials and equipment.
ENR 9-1-27

Bridges (Continued)

Jaunita Rd., Highway 3, Harris Co. $145,000.

Okla., Lima—Sept. 7, by State Hy. Dept., Oklahoma City, 3 span 88 ft. rein.-con. trestle bridge, 78.04 tons I-beam steel, 38.37 tons reinforcing, 3,380 ft. wooden piling, etc., Semniole Co., here. $30,000. C. R. Mandigo, Capitol, Oklahoma City, engr.

Washington—See "Streets and Roads."

Contracts Awarded

Massachusetts — Dept. Pub. Wks., Boston, 2 rein.-con. bridges and approaches on highway in Bolton and Lancaster, to C. Quillan, Providence, R. I., $41,194; and steel bridge with gravel approaches in Huntington, to Adams & Ruxton Constr. Co., 1387 Main St., Springfield, $97,336. Noted Aug. 4 under "Streets and Roads."

Massachusetts—Metropolitan Dist. Comn., Boston, rein.-con. and stone bridge and approaches over Charles River, on Wales St. and Walnut St., in Newton and Wellesley, to C. & R. Constr. Co., 75 Brandeen St., Roslindale, $30,629; also grading for above, to J. H. Fannon, 39 Powder House Terrace, Somerville, $54,171.

New York—A. W. Brandt, comr. Highways, Albany **(R.C. means Repair Contract)**, constructing 38 ft. twin-span I-beam concrete bridge on R. C. 1641, Olean-Hinsdale-Cuba, Highway 5137, Cattaraugus Co., to Ryan Bros., Campo & Kennedy, Dansville, $22,707; 80 ft. concrete arch span bridge on Highway 8269, Star Lake-Cranberry Lake Rd., St. Lawrence Co., to A. C. Bailey, Phillipsburg, Pa., $30,641; 45 ft. I-beam span, bridge, penetration macadam approach etc. on Ogdensburg-Canton Part 2, Highway 733, R.C. 1634, and 4 concrete bridges, etc. on Winthrop-North Lawrence, Highway 5509, R.C. 1639, St. Lawrence Co., to Lord Coopy & Furnia, Inc., Rouses Point, $19,382 and $53,340 respectively; one 100 ft. plate girder and 30 ft. I-beam spans, etc. Potsdam-Nicholville, Highway 5285, R.C. 1638. St. Lawrence Co., to Saranec Eng. Co., Inc., Saranac Lake, $40,276; two 20 ft. concrete and one 32 ft. I-beam spans, etc. on Copenhagen-Lowville, Part 1, Highway 1020, and Part 2, Highway 847, R.C. 1635, Lewis Co., to Hyatt & Stockham, Battenville, $52,420; 120 ft. truss bridge and approach, on Vestal Rd., Highway 420, R.C. 1640, Broome Co., to Steward Sand & Gravel Corp., Binghamton, $54,008; 125 ft. truss bridge and approach, Gardenville-Williamsville Rd., R.C. 1733-A, Erie Co., to J. W. Cowper Co., Buffalo $53,511; and 100 ft. pony truss bridge, etc. on East Nassau-Brainard, Highway 439, R.C. 1637, Rensselaer Co., to Palette & Santos, Amsterdam, $47,771. Grand total $389,748. Noted July 28.

New Jersey and Pennsylvania — Joint Comn. for Elimination of Toll Bridges over Delaware River, State Bldg., Trenton, steel span bridge over Delaware River, from Trenton, N. J., to Morrisville, Pa., to S. S. Thompson, Red Bank, $469,610. Noted Aug. 18.

N. J., Matawan—State Hy. Comn., Trenton, 265 ft. concrete and steel bridge, on Route 4, Sect. 34A, Monmouth Co., here, to S. S. Thompson & Co., Red Bank, $340,444. Noted July 28.

Pennsylvania—State Hy. Comn., Harrisburg, 86 ft. span rein.-con. bridge and 1,788 ft. rein.-con. approaches, on Route 121, Huntingdon Co., to Concrete Steel Bridge Co., Clarksburg, W. Va., $39,061. Noted July 14 under "Streets and Roads."

Miss., Gulfport—Harrison Co., rein.-con. and steel bridge, incl. 638 ft. pile approach and 163 ft. overall swing span over Back Bay, at Popp Ferry, to Austin Bros. Bridge Co., Mickleberry St., Atlanta, Ga., $41,777.

Michigan—C. L. Cowgill, resident engr., Plymouth, Grade Separation X 1 of 47-6-1, Contr. 1, 3 span 108 ft., to Ann Arbor Constr. Co., Ann Arbor, State Hy. Dept., Lansing. $57,103. Noted Aug. 11.

Ill., Chicago—Cook Co. Hy. Dept., County Bldg., 4 concrete bridges, one at Grand Ave. and Des Plaines River, to Joliet Bridge & Constr. Co., Joliet, $34,930; one at 31st St. near Wolf Rd., to Davidson & Doctor, Orland, $49,216; one at Irving Park Blvd., to R. Mann, Rockford, $72,175; and other at Devon Ave., to Oltendorf Constr. Co., Palatine, $78,132. Grand total $234,453. Noted Mar. 31 and July 7.

Minn., New York Mills—Northern Pacific Ry. Co., Ry. Exch. Bldg., St. Paul, steel and concrete bridge separating tracks from highway, here, to Peppard & Fulton, 442 Metropolitan Bank Bldg., Minneapolis, approximately $40,000.

Kan., Ellsworth — See "Streets and Roads."

Kan., Erie—See "Streets and Roads."

Kan., Wamego—Clerk Waubaunsee Co. (Alma) and Pottawatomie Co. (Westmoreland), six 150 ft. span steel truss bridge, 20 ft., and 0.332 mi. grading, 28 ft., on Federal Aid Project 243-A, near here, to Western Bridge Co., Harrisonville, Mo., $128,565. Noted July 14.

Montana — State Hy. Comn., Helena **(F.A.P. means Federal Aid Project)**, to Yellowstone Constr. Co., Billings, constructing Lower Deer Creek Bridge, 25,200 lb. structural steel and 4,000 lb. reinforcing, etc. on Big Timber-Columbus Rd., F.A.P. 127-C, Unit 2, Sweet Grass Co. $5,873, Antelope Creek Bridge, 25,500 lb. structural steel and 4,200 lb. reinforcing, etc., on Forsyth-Miles City Rd., F.A.P. 135-A, Unit 2, Rosebud Co. $6,975, and Emigrant Creek Bridge, 17,000 lb. structural steel and 3,100 lb. reinforcing, etc., on Yellowstone Canyon Rd., F.A.P. 217-D, Unit 2, Park Co. $5,269; to McGuire & Blakeslee, 1st Natl. Bank Bldg., Great Falls, 6 timber tile bridges on Dupuyer-Birch Creek Rd. F.A.P. 236-A, Unit 2, Pondera Co., $14,101; and to J. F. Harrington, Missoula, 5 timber pile bridges on Poplar-Culbertson Rd., F.A.P. 240-A, Unit 2, Roosevelt Co., $10,039. Grand total $42,257.

Missouri — State Hy. Comn., Jefferson City, to Pittsburgh Des Moines Steel Co., Tuttle and South West 10th Sts., Des Moines, Ia., one 40 and two 35 ft. rein.-con. deck girder spans, etc., over Cuivre River, Audrain Co., $11,820; to O. O. Fuller, Nevada, one 40 ft. rein.-con. deck girder span, etc., over Pitite Saline, Cooper Co., $3,913; to J. P. Sparks, Kirkwood, three 30 ft. rein.-con. deck girder spans, etc., over Bobs Creek, Lincoln Co., $7,171; to Kelly & Underwood, Granby, two 4 ft. and four 6 ft. rein.-con. slab spans, etc., over creek, $3,631, three 40 ft. and two 35 ft. rein.-con. deck girder spans, etc., over Spring River, $12,658, and two 8 ft. span bridge over Dry Branch, $2,492, all Lawrence Co.; to E. P. Olson, St. Joseph, seven 20 ft. rein.-con. slab spans over Shannon Branch, Clinton Co., $6,791; to Davies Constr. Co., Boonville, two 12 ft. rein.-con. slab spans, etc., over creek, Audrain Co., $4,421; to J. J. Bailey, St. Louis, fourteen 20 ft. rein.-con. slab spans over Overflow Little Chariton River, $16,609, 90 ft. steel truss, two 25 ft. and two 30 ft. rein.-con. deck girder spans, etc., over Little Chariton River, $18,223, Chariton Co.; also to Cameron Joyce, Smith, Elder, Keokuk, Ia., two 12 ft. and two 20 ft. rein.-con. slab, and one 80 ft. steel truss spans, etc., over creek, Pike Co., $17,904. Grand total $105,633.

Arkansas—See "Streets and Roads."

Railways

Contracts Awarded

Missouri — Kansas City Pub. Serv. Co., 15th St. and Grand Ave., Kansas City, restoring 1,850 ft. elevated double track from end of tunnel to Mulberry and 9th Sts., in Kansas City, steel, to Kansas City Structural Steel Co., 21st St. and Metropolitan Ave., Kansas City; also erecting steel and foundation for same, to Wisconsin Bridge & Iron Co., 1302 Commerce Bldg., Kansas City. Engrs. est. $250,000.

Texas—Houston Port Comn., relaying rails and angle bars for railroad tracks in Port Yard on north side of Turning Basin, to J. W. Cain & Co., 2nd Natl. Bank Bldg., Houston, $20,319; ties and crossing timbers to Amer. Creosote Wks., 1305 Dublin St., New Orleans, La., $32,306; also laying railroad tracks to W. A. Smith, West Bldg., Houston, $47,629. Grand total $100,254. Noted Aug. 18.

Excavation, Drainage, Irrigation, Levees, River and Harbor

Proposed Work

N. J., Asbury Park—A. G. King, city clk., plans repairing breakwater jetty near Deal Lake, and constructing new jetty on ocean front, 6th Ave. $125,000.

Ia., Carroll—Storm Creek D. D. 23, Carroll Co., rejected bids Aug. 1, cleaning out main ditch and laterals, incl. 421,579 cu.yd. excav., etc. Will readvertise. W. T. Bohnenkamp, co. aud.

Tex., Navasota—Brazos Valley Irrigation Co., c/o W. T. Eldridge, pres., Sugarland, making plans dam, impounding 5,250 acre ft. water, on Brazos River for irrigation, etc., near here. $100,000. Private plans.

Calif., Redwood City—South San Francisco D. D. 1, made plans rein.-con. drainage canal, 36 in. rein.-con. storm drain, rein.-con. bridges, etc. $142,000. G. A. Kneese, Redwood City, co. surv.

Ont., Leamington—Mersea Twp., A. Hairsine, clk. council, making plans complete reconstruction, Selkirk Drain. $70,000. J. J. Newman, Davis Blk., Windsor, engr.

Bids Desired

N. J., Sea Girt—Sept. 6, by Boro Council, 6 creosoted timber jetties on Ocean Front, near Sea Girt Ave., Sincerbeau, Moore & Shinn, Trust Bldg., Asbury Park, engrs. Noted July 7.

N. C., Wilson—Sept. 8, by Mayor and Bd. City Comrs., dredging 70,000 ft. Hominy Swamp. $35,000. R. D. Gladding, Wilson, consult. engr.

La., Rayville—Sept. 12, by Comrs. Tensas Basin Levee Dist., J. W. Summerlee, pres., constructing 200,000 cu.yd. levee work on Ouachita River, Caldwell Parish. Bd. State Engineers, 213 New Orleans Court Bldg., New Orleans, engrs.

Ia., Logan—Sept. 6, by W. R. Adams, aud. Harrison Co., repairing Soldier Cut-off Ditch, incl. sloping of banks, rebuilding 7.25 mi. levees to grade line from bridge at Orson to Missouri River, 938,000 cu.yd. excav., etc. T. A. Cherry, Logan, engr.

Arkansas—Sept. 6, by Morgan Eng. Co., 622 Goodwyn Institute, Memphis, Tenn., corrugated iron pipe and gates, etc. for drainage system, here, for Council Chute D. D., Crittenden Co., c/o engineers.

Ont., Humberstone — Sept. 6, by A. E. Near, clk., Humberstone Twp., Port Colborne, approximately 20,495 cu.yd. drainage excav., here. $25,000. Ross & Scott, Welland, engrs.

B. C., New Westminster — Sept. 6, by Dept. Pub. Wks., Ottawa, Ont., S. E. O'Brien, secy., approximately 1,000 ft. rock embankment in Fraser River, near here. $40,000. C. C. Worsfold, P. O. Bldg., engr.

B. C., Powell River—Sept. 6, Dept. Pub. Wks., Ottawa, Ont., 1,000 ft. rock and rubble breakwater, incl. 50,000 cu.yd. large dimension rock, etc., here. $150,000. C. C. Worsfold, P.O. Bldg., New Westminster, engr.

Contracts Awarded

Miss., Clarksdale—Bd. Comrs. Yazoo-Mississippi Delta Levee Dist., 10,000 ft. levee work, incl. 297,600 cu.yd. new and sub-levees, to McWilliams & Abernathy, Clarksdale, $119,000. Noted July 28.

Miss, Greenville—Comrs. Mississippi Bd. of Levees, 100,000 cu.yd. levee enlargement at Lake Vermill, to T. W. Roach, North Memphis Savings Bank Bldg., Memphis, Tenn., at $0.364 per cu.yd.

Mo., Princeton—Little River D.D., Main Ditch and Brush Creek Lateral, 300,000 cu.yd. excav., to Fred M. Crane Co., 1124 City Natl. Bank Bldg., Omaha, Neb., at $0.08 per cu.yd.

Ont., Cookstown — Tecumseh Twp. constructing Nottawasaga Drain, 197,400 cu. yd. earth excav., to Cummings & Robinson, Bradford. Engrs. est. $75,000.

Ont., Sarnia—Dept. Pub. Wks., Ottawa, dredging harbor, here, to Natl. Dock & Dredging Corp., Quebec City, Que., $116,000.

Streets and Roads

Bids Desired

New Hampshire—Sept. 7, by State Hy. Dept., Concord, grading and 3 in. bituminous macadam on 5 in. broken stone surfacing 18,400 sq.yd. or one course rein.-con. on old surface treated gravel surfacing 18,566 sq.yd. East Side Rd., Carroll Co. $55,000. H. L. Smith, Lakeport, engr.

N. Y., Brooklyn — Sept. 8, by J. J. Byrne, pres. Brooklyn Boro, Boro Hall, grading, sidewalks, etc., parking space at Dreamland, Coney Island, Avenue U, Powell St. and Benson Ave.; restoring and repaving where directed in various streets; grading and granite block repaving Atlantic Ave.; grading and sheet asphalt on concrete paving Bulwer and Hinckley Pls., Farragut, Glenwood, and Rutland Rds., Avenues S, O and M, Flatlands, Gravesend, Lefferts, Narrows, Utica, and 6th Aves., East 5th, East 8th, East 98th, Junius, North 15th, West 12th Sts., etc.

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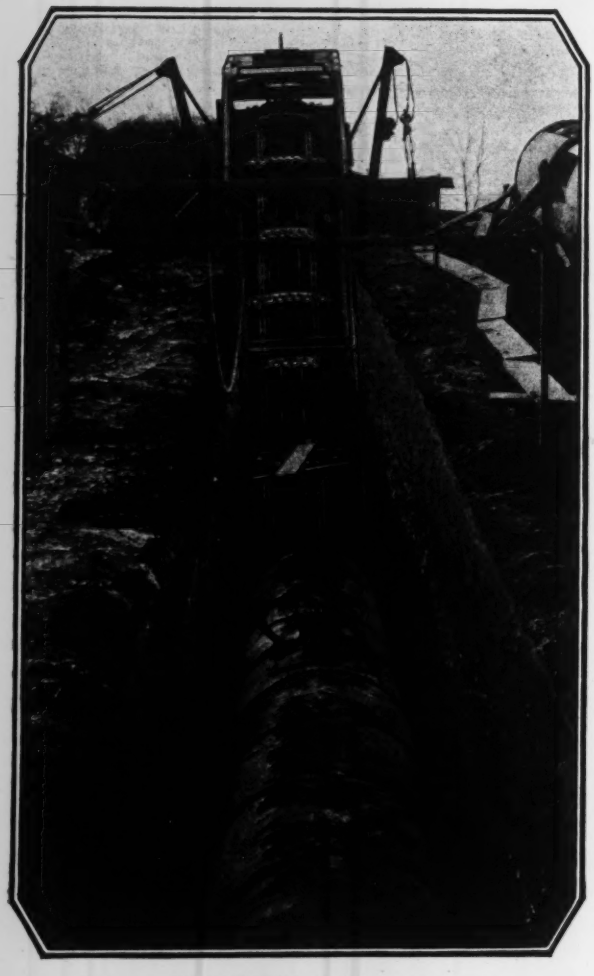
INDEPENDENT



Laying an INDEPENDENT 42-inch concrete sewer at Niles, Ill. Note how closely pipe-laying follows the excavating.

INDEPENDENT 48-inch Concrete Pipe delivered along the line of a trunk sewer at South Bend, Ind.

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PERMANENCE is proved by the long and successful record of concrete pipe sewers—some of which date back to 1850. And "INDEPENDENT" means concrete pipe at its best—backed by America's largest exclusive manufacturer of reinforced concrete sewer pipe.

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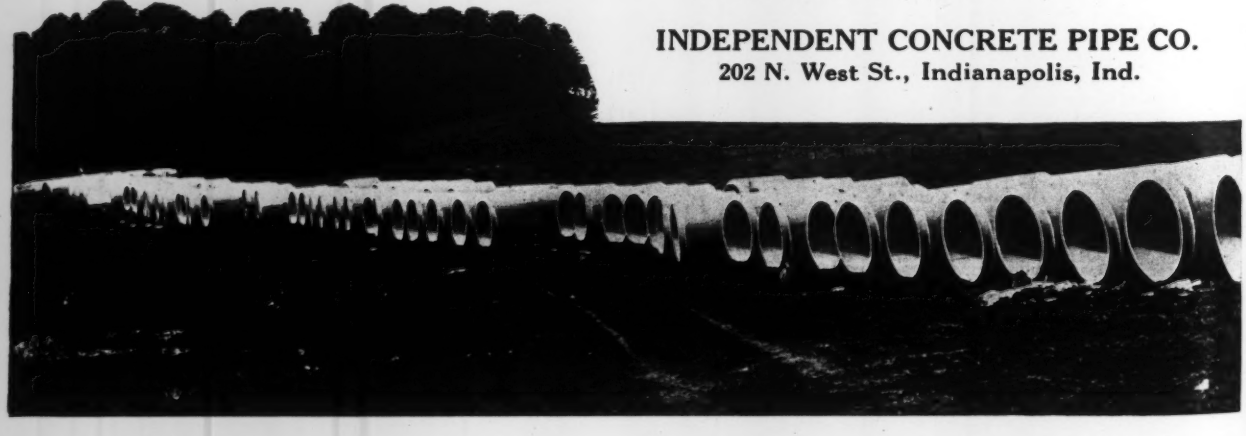

Streets and Roads (Continued)

N. Y., Long Island City—Sept. 6, by M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., grading, curbing, sidewalks, etc., in Stanley Ave. from Blackstone to Connecticut Aves.

N. Y., New York—Sept. 9, by B. M. Patten, comr. Pub. Markets, Municipal Bldg., grading, paving, etc., Bronx Municipal Terminal Market, Exterior and 151st Sts., Bronx Boro.

N. Y., Ridgewood (sta. Brooklyn)—Sept. 6, by W. R. Herrick, pres. Park Bd. Dept. Parks, Arsenal Bldg., Central Park, New York City, improving Anawanda Park, here.

New Jersey — Sept. 19, by State Hy. Comn., Trenton, grading and 8 in. double line rein.-con. paving 11,156 sq.yd. Route 18 (South) and Route 20, Malaga Relocation and grade crossing elimination, Gloucester Co. A. L. Grover, ch. clk.; adv. E. N.-R. Sept. 1.

Pa., Phila.—Sept. 6, by Dept. City Transit, H. E. Ehlers, dir., 1211 Chestnut St., repaving Broad St. between Loudon St. and Wagner Ave.; and replacing 1,720 ft. existing granite blocks on concrete base (with bitulithic mastic filler), 69 ft. in Broad Street Subway.

Pa., Uniontown—Sept. 7, by E. Huston, controller Fayette Co., grading, etc., 11,500 ft. road, in Menallen Twp.; rein.-con. paving, etc., 5,157 ft. streets Connellsville Twp., and 9,371 ft. in Upper Tyrone Twp.; all foregoing 16 ft. wide; also Kentucky rock asphalt on 10 in. crushed stone or crushed slag paving, etc., 5,300 ft. streets, 18 ft., in Washington Twp.

Maryland — Sept. 6, by State Roads Comn., Baltimore, graveling 1.2 mi. Contr. AA-48, Anne Arundel Co.; concrete shoulders on 2.32 mi. Contr. 48-B, Allegany Co.; concrete paving 0.5 mi. Contr. P-79 Prince George's Co., and 1 mi. Contr. M-75, Montgomery Co.; also Amiesite and Kentucky rock asphalt paving 0.54 mi. Contr. A-47, Allegany Co. J. N. Mackall, chn.

Md., Baltimore—Sept. 7, by Bd. Awards, sheet asphalt surfacing 17,190 sq.yd. streets, listed in Contr. 429, also concrete paving 7,440 sq.yd., listed in Contr. 430. N. L. Smith, City Hall, acting highway engr.

W. Va., Charleston—Sept. 8, by Court Kanawha Co., grading, etc. 5.27 mi. Cabin Creek-Marmot Rd., Project 206. $80,000. C. Ross, Charleston, engr.

Fla., Sanford—Sept. 6, by Bd. Comrs. Seminole Co., clearing, grading, bridging and paving 200,000 sq.yd. various roads. F. T. Williams, Sanford, engr.

Miss., Canton—Sept. 6, by Bd. Supervs. Madison Co., grading, graveling, etc. 6 mi. Sharon-Canton Highway, 18 ft. R. Covington, Canton, engr.

Louisiana—Sept. 6, by State Hy. Comn., Baton Rouge, grading and graveling 6.19 mi. Robeline-Cypress Highway, State Project 430-B, Natchitoches Parish. N. W. Bowden, highway engr.

Louisiana—Sept. 15, by State Hy. Comn., Baton Rouge, grading and graveling 6.548 mi. Sun-Bogalusa-Mississippi State Line Highway, Sect. D, State Project 412-D, Washington Parish. N. W. Bowden, highway engr.

Louisiana—Sept. 15, by State Hy. Comn., Baton Rouge, grading and shell surfacing 13.103 mi. Cutoff-Golden Meadow Highway, State Project 558, Lafourche Parish. N. W. Bowden, highway engr.

La., West Monroe — Sept. 7, by City Clerk, grading and granitoid paving 16.5 mi. various streets.

Tenn., Cleveland—Sept. 6, by W. Parks, mayor, grading, curbing and 7 in. concrete paving 4,900 sq.yd. 36th St. $35,000. Long & Co., Bennie-Dillon Bldg., Nashville, engrs.

Ohio—Sept. 9, by G. Schlesinger, dir. Highways & Pub. Wks., Columbus, brick, concrete or bituminous macadam paving roads in Columbiana, Coshocton, Fulton, Jefferson, Meigs, Mercer, Scioto, Morrow, Muskingum, Portage, Stark, Washington Counties, etc. $1,689,381.

Michigan — Sept. 20, by C. L. Cowgill, resident engr., Plymouth, concrete paving 3 mi. MO 82-14, Contr. 3, 20 ft., Wayne Co., for State Hy. Dept., Lansing.

Mich., Pontiac—Sept. 7, by J. V. Bayley, clk. Bloomfield Twp., grading and 6 in. compacted gravel surfacing 30,082 sq.yd. Assessment Dists. 2 and 3. $25,000. McAlpins-Starr, Inc., Birmingham, engrs.

Ill., Maywood—Sept. 8, by City, curbing, guttering and rein.-con paving 11,700 sq.yd. 19th Ave. $52,250. Consoer, Older & Quinlan, 140 South Dearborn St., Chicago, engrs.

Ill., Niles Center—Sept. 6, by Town, curbing, guttering and rein.-con. paving 32,965 sq.yd. Lonnquist Ave. $132,000. Consoer, Older & Quinlan, 140 South Dearborn St., Chicago, engrs.

Minn., Robbinsdale — Sept. 6, by C. F. Wilson, village mgr., grading, etc. 90,000 cu.yd. streets in McNair Manor. $35,000. J. E. Carroll, 1682 Lincoln Ave., St. Paul, engr.

Kan., Cottonwood Falls — Sept. 23, by Clerk Chase Co., grading, etc. 8.452 mi. Federal Aid Project 47-C, 28 ft. H. W. Wilkinson, Cottonwood Falls, co. engr.

N. D., Minot — Sept. 6, by City, G. A. Reishus, aud., rein.-con., asphaltic concrete or warrenite bitulithic on concrete or asphaltic concrete paving, etc., approximately 27 blocks streets Dists. 21, 24 and 25. $100,000.

Mo., St. Louis—Sept. 20, by Bd. Pub. Serv., 208 City Hall, grading Esther St. between Elizabeth and Simpson Sts. $2,500, Iron St. between Colorado St. and Grand Kingshighway $2,400, Goodfellow St. between McLaran St. and Halls Ferry Rd. $28,400, grading sidewalk space on 12th St. between Park Ave. and Hickory St. $1,150; also 20 ft. rein.-con. paving, etc. Sublette Ave. between Arsenal and Connecticut Sts., $8,280. W. W. Horner, 300 City Hall, engr.

Ark., Fort Smith — See "Contracts Awarded."

Texas—Sept. 8, by State Hy. Comn., R. Sterling chn., Austin, grading, concrete paving, bituminous surfacing, etc., approximately, 220 mi. roads in 15 counties. $1,057,768.

Tex., Brownsville—Sept. 8, by Comrs. Court Cameron Co., concrete paving approximately 10.6 mi. Paraedes Line Rd., and 6.5 mi. State Highway 100; also grading, etc. approximately 16.4 mi. Boca Chica Rd. W. O. Washington, Court House, co. engr.

Tex., San Antonio — Sept. 8, by City Comn., grading and surfacing 13 blocks Taft Blvd. $25,000. I. Ewig, city engr.

Tex., Sweetwater—Sept. 7, by State Hy. Comn., Austin, R. A. Thompson, comr., concrete paving 233,533 sq.yd. State Highway 1, Sweetwater Co. $500,000. S. C. Dougherty, Sweetwater, resident engr.

Okla., Holdenville—Sept. 6, by J. Kirk, city clk., grading, curbing and concrete paving 8,400 sq.yd. Kelker Ave. $25,000. C. H. Edge, Holdenville, engr.

Washington—Sept. 13, by State Hy. Comn., Olympia (**S. R. means State Roads**), grading approximately 5.2 mi. S.R. 3, Spokane Co., and 0.8 mi. S.R. 10, Douglass Co.; also constructing one 90 ft. steel bridge with concrete abutment, over Little Naches River, Yakima Co.; and 1,160 ft. 4 ft. timber sidewalk on Woodland Bridge over Lewis River at Woodland on S.R. 1, Cowlitz and Clark Counties. S. J. Humes, Olympia, highway engr.

Calif., Banning — City Trustees taking bids curbing, guttering, walks and paving, etc., Hays St., etc. To exceed $25,000. L. Nafzgar, city engr.

Calif., Petaluma — G. V. Roberts, city clk., taking bids hydrated concrete paving, etc., streets in A & I Impvt. Dist. 2. To exceed $25,000. J. B. Piatt, Rosenberg Bldg., Santa Rosa, engr.

Calif., San Diego—Sept. 12, by Common Council, grading, curbing, guttering, sidewalks, sewers, 6 in. asphaltic concrete paving, etc. 212,091 sq.ft. Hickory, Chestnut and other streets; also 570,926 sq.ft. Hill, Cornish and other streets. A. H. Wright, city clk.

Ont., Scarborough — Sept. 6, by W. D. Annis, clk. Scarborough Twp., 1 Birch Cliff Ave., Toronto, brick and asphalt paving ¼ mi. Queen St., 33½ ft., here. $28,500. C. E. Fraser, 1683 Kingston Rd., Toronto, engr.

Ont., Toronto—Sept. 6, by York Twp., concrete sidewalks, etc., on 3 mi. Rogers and Old Weston Rds., Dufferin, Bude and Guy Sts., Metheun, Kane, Westmount and Bowie Aves. $30,000. F. B. Goedike, 40 Jarvis St., engr.

Contracts Awarded

Massachusetts—See "Bridges."

Massachusetts—Dept. Pub. Wks., Boston, bituminous concrete paving 2,600 ft. highway in Nantucket, to M. F. Roach, Inc., 35 Spring St., East Bridgewater, $10,266; bituminous macadam on gravel surfacing 4,846 ft. in New Braintree, to Hudson Constr. Co., 620 Governor Bldg., Newport, R. I., $13,869; and bituminous macadam asphalt paving 1,700 ft. in Rutland, to Guaranty Constr. Co., Shirley, $8,829, all 18 ft. Grand total $32,964. Noted Aug. 4.

Massachusetts—Dept. Pub. Wks., Boston, grading and bituminous macadam paving, etc., highway in Marlborough, to J. A. Genereaux, Southbridge, $45,616, both in Marlborough Co. Noted July 21.

New York—A. W. Brandt, comr. Highways, Albany (**R.C. means Repair Contract**), concrete reconstructing 0.129 mi. R.C. 1642, Sandy Hill-Glens Falls, Highway 656, Warren Co., to J. Massivera, Glens Falls, $7,437; concrete on broken slag paving, etc. 2.43 mi. Highway 1767, Buffalo-Millersport, Part 1-B, Erie Co., to Peoples Paving Co., Inc., Buffalo, $209,689; and concrete reconstructing 3.01 mi. R.C. 1552, Lake Shore - Lackawanna City Highway 5019, Lackawanna City-South, Highway 5071, and Athol Springs-Walder Cliff, Highway 5407, to Harrison Eng. & Constr. Corp., Buffalo, $347,195. Grand total $564,321. Noted July 28 under "Bridges."

N. Y., Long Island City—M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., to Welsh Bros. Contg. Co., 32 Queen St., Astoria, grading, etc., Honeywell St. $2,490, 41st St. $11,546, and 61st St. $1,895, to J. J. O'Brien, Jr., William St., Jamaica, Virginia Ave. $2,016, to C. Kurth, 9519 126th St., Richmond Hill, Simonson Pl. $1,944, and to C. H. Georgi, 15 Ely Ave., Long Island City, Jamaica Ave. $3,130; to M. J. Grant, 139 Potter Ave., Astoria, granite paving 35th St., $2,153; and to Cleveland Trinidad Paving Co., Flushing, grading and asphalt paving 129th St., $15,983. Grand total $41,167. Noted Aug. 4.

N. J., Ridgefield Park—Concrete paving, etc. Lincoln Ave. from Hackensack Ave. to Cedar St., and Roosevelt Ave. from Preston St. to northern Line of city, to G. DiNapoli, Inc., 80 Main St., Hackensack, $82,522. Noted July 28.

N. J., Woodridge (mail Rutherford)—For 6 in. rein.-con. paving, etc. Columbia Blvd., Woodridge and Highland Aves., to A. Weyersberg & Co., 634 Valley Brook Ave., Lyndhurst, $60,646.

Pennsylvania—State Hy. Comn., Harrisburg, (**R. means Route and A. Application**), concrete paving, etc., 16,900 sq.yd. R. 112, Sects. 5 and 6, Fayette Co., to Georges Constr. Co., Uniontown, $82,895. 5,365 sq yd. A. 4638, Westmoreland Co., to W. H. Nicely Constr. Co., Ligonier, $29,833, 11,626 sq.yd. R. 928, Indiana Co., to J. L. Elder, Ebensburg, $51,404, and 35,696 sq yd. R. 55, Blair Co., to Clark Bros. Constr. Co., Cherry Tree, $167,911; rein.-con. paving, etc., 20,375 sq.yd. R. 339, A. 4345, Dauphin Co., to Lincoln Constr. Co., Strafford, $74,576, 18,834 sq.yd. A. 4361, Westmoreland Co., to Gray Bros. Constr. Co., Youngstown, O., $156,889, and 6,800 sq.yd. R. 76, Sect. 6, Beaver Co., to C. B. Constr. Co., Beaver, $31,784; sheet asphalt paving, etc., 3,946 sq.yd. R. 97, Elk Co., to Permanent Paving Co., Johnstown, $7,558; and grading, etc., 10,919 cu.yd. R. 1, Dauphin Co., to J. C. Shawfield, Union Trust Bldg., Harrisburg, $19,981. Grand total $622,831. Noted July 14.

Maryland — State Hy. Comn., Baltimore, graveling, 2.7 mi. Sm-38, St. Marys Co., to T. Mullan, 3945 Greenmount Ave., Baltimore, $24,780; concrete paving 8 mi. Contr. A. A-51, Anne Arundel Co., to Ward & O'Connell, 3114 Presbury St., $22,813. Noted Aug. 4.

Md., Baltimore—Concrete paving 22,875 sq.yd. streets listed in Contr. 421, to Aiello Constr. Co., 4th and Gough Sts., $54,432. Noted Aug. 18.

Virginia — State Hy. Comn., Richmond, bituminous macadam surfacing 4.589 mi. Elkton Rd., Route 17, Project S-482-A, Rockingham Co., and 2.2 mi. Leesburg Rd., Route 251, Project S-505, Loudon Co., to C. S. Luck & Sons, 1617 Brook Rd., $143,532 and $98,478 respectively; grading, etc., 3 mi. Route 114, Project S-494-A, Dickenson Co., to W. H. Meadows & Co., Coeburn, $44,420, 1.86 mi. road top Warm Springs Mountain, Route 338, Project S-388, to M. T. McArthur, Johnson City, $36,183, 5.1 mi. Route 110, Project S-162-D and C, Prince Edward Co., to Spotsylvania Constr. Co., Highland Springs, $20,750, 2.948 mi. Route 23, Project S-139-C, Floyd Co., to Sutherland Bros., Clintonwood, $39,657. Grand total $383,020. Noted July 28.

W. Va., Charleston—Kanawha Co. Court, concrete surfacing portions Ruth-Rabel Mountain Rd. and Chestnut St., to H. R. Wiley, Charleston, $33,898. Noted Aug. 4.

W. Va., Middlebourne—Tyler Co. Court, improving Projects 1, 3, 4 and 5, Union Dist., and Project 4, Lincoln Dist., to Riggs & Matheny, Pennsboro, $48,145. Noted June 30.

Alabama—State Hy. Comn., Montgomery (**e.e. means engrs. est. and F.A.P. Federal Aid Project**), to J. B. McCrary, Bankhead Ave., Atlanta, Ga., cement paving 16.61 mi. highway between Birmingham and Narrior, Jefferson Co. $249,519 e.e. $250,500 and and concrete paving 14.93 mi. roadway from end of F.A.P. 82 to Garden City, Cullman Co. $234,676 e.e. $236,000, to W. J. Bryson Paving Co., 239 West Adams St., Jacksonville, Fla., 6.86 mi. roadway from Hunter Station to overhead Louisville & Nashville Ry. bridge in Autauga Co., Montgomery and Autauga Co. $81,248 e.e. $83,200, 10.77 mi. roadway from Greenville to Lowndes Co. line, Butler Co. $162,496 e.e. $164,200, and 3.85 mi. roadway from city limits of Montgomery to Hunter Station

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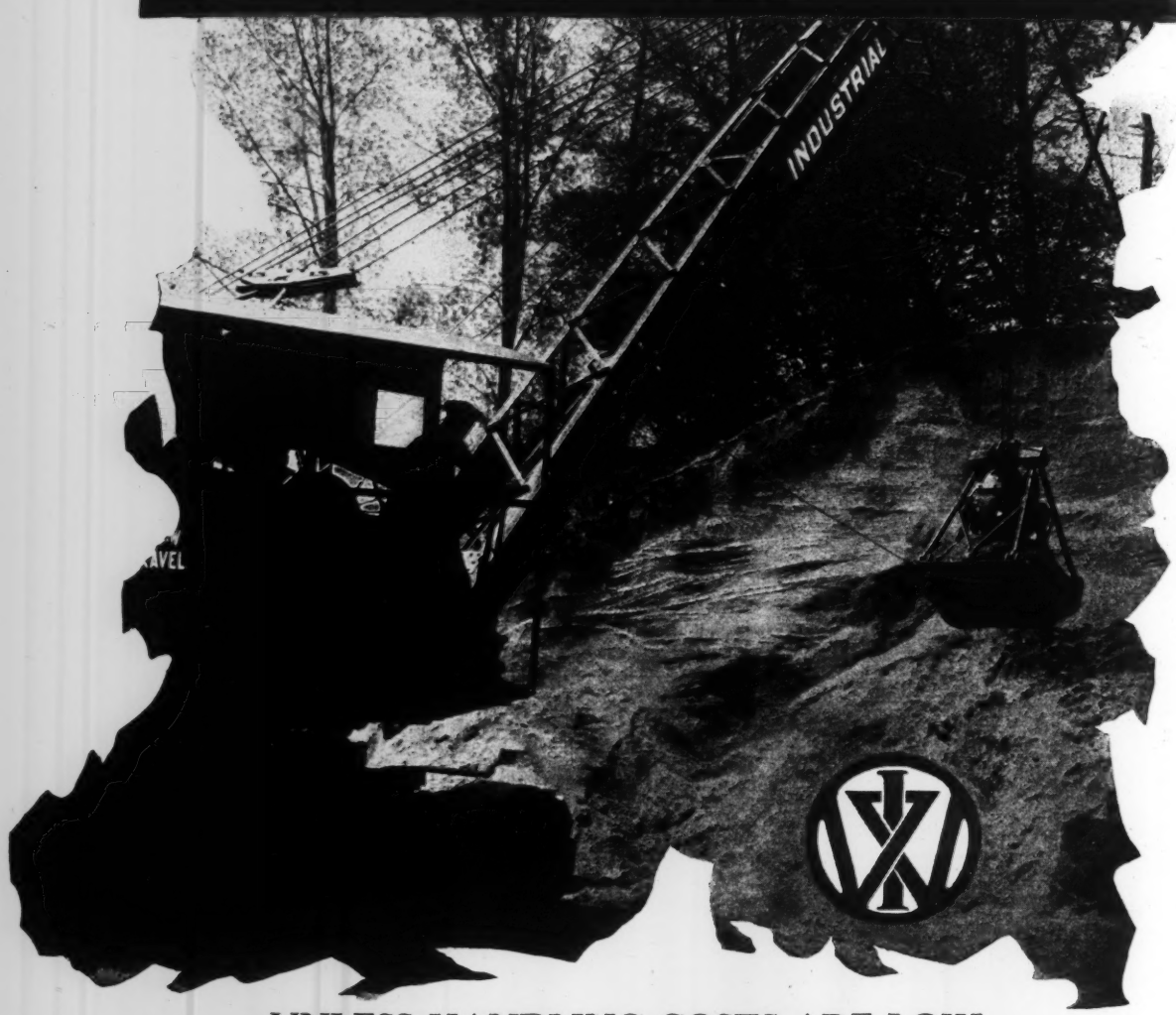
YOUR BANK BOOK IS AT STAKE!



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New York City 50 Church St. | Philadelphia, Pa. Packard Building | Pittsburgh, Pennsylvania Federal Reserve Building | San Francisco, Calif. Monadnock Building

St. Louis, Mo. Railway Exchange Bldg.

Streets and Roads (Continued)

$14,680 e.e. $45,500, to Hartman & Clark, 320 Peoria Life Bldg., Peoria, Ill., 10.58 mi. roadway from Theodore to Grand Bay, Mobile Co., $171,439 e.e. $175,000, to Mitchell Bros., Amer. Trust Bldg., Birmingham, 2.42 mi. Birmingham-Montgomery Highway, Jefferson, Shelby, Chilton and Autauga Counties, $49,249 e.e. $50,000. Grand total $993,307. Noted Aug. 4.

Alabama—State Hy. Comn., Montgomery (**e.e. means engrs. est.**), 5 in. rock asphalt paving 8 blocks through Luverne Twp., Crenshaw Co., to Luverne Twp., Luverne, $34,120 e.e. $35,000; concrete paving 3 blocks through Brundidge Twp. Pike Co. to Brundidge Twp., Brundidge, $12,931 e.e. $13,000, 2 blocks through Hartford Twp., Geneva Co. to Hartford Twp., Hartford $7,200 e.e. $7,500, 3 blocks through Attalla Twp., Etowah Co., to D. A. Burton, Jackson Blvd. $11,450 e.e. $12,100, 4 blocks through Dadeville Twp., Tallapoosa Co., to Tallapoosa Co., Dadeville $9,967 e.e. $10,200, 7 blocks through Guin Twp. Marion Co., and gravel surfacing 4 blocks highway from Uniontown to Newbern, Perry and Hale Counties, to Nixon & Phillips, Amer. Trust Bldg., Birmingham $25,680 and $70,195 respectively e.e. $26,000 and $72,000 respectively; also asphaltic concrete paving 4 blocks through Talladega Twp., Talladega Co., to Talladega Twp., Talladega, $15,276 e.e. $16,000. Grand total $186,819. Noted Aug. 4.

O., Akron—W. F. Peters, dir. Pub. Serv., (**e.e. means engrs. est.**) to Columbus Asphalt Paving Co., 304 Buckeye Bldg., grading, curbing and Mexican paving 4,130 sq.yd. Whittier Ave. $20,031 e.e. $25,000, repressed brick paving 7,300 sq.yd. East South St. $40,846 e.e. $48,300, and 3 in. brick paving 2,450 sq.yd. Delia Ave. $18,515 e.e. $27,000; to T. E. McShaffrey Constr. Co., 173 South Forge St., 4,900 sq.yd. Firestone Blvd. N. $42,198 e.e. $55,700; to McCourt Constr. Co., 369 South Main St., grading, curbing, walks and vitr. brick paving 8,400 sq.yd. Rhodes Ave. $117,168 e.e. $127,500; also to Guran & Brancich, 429 Matthews St., grading, guttering, walks and cindering 1,300 cu.yd. Neptune Ave. et al $12,332 e.e. $15,700. Grand total $251,087. Noted Aug. 4.

O., Canton — Bd. Control, brick paving 21st St. N.W., to Burd Constr. Co., Spring Ave. N.E., $90,000 engrs. est. $90,000; also asphalt paving approximately 1 mi. 21st St. N.W., 30 ft., to General Asphalt Paving Co., Witters Bldg., Cleveland Ave. N.W., $49,063, engrs. est. $50,000. Noted June 2.

O., Cincinnati—City (**e.e. means engrs. est.**), curbing, walks and concrete paving 10,700 sq.yd. and sheet asphalt paving 15,500 sq.yd. Anthony Wayne Ave., to General Contg. Co., 1222 Plymouth Bldg., Minneapolis, Minn., $235,815 e.e. $252,000; curbing, walks and sheet apshalt paving 3,800 sq.yd. Baymiller St., to Cino Constr. Co., 209 2nd Natl. Bank, $24,752 e.e. $26,269; also curbing, walks and 6,000 sq.yd. new and 4,500 sq.yd. old granite repaving 3rd St., to A. J. Henkel Co., 105 Bell Bl., $63,364 e.e. $74,558. Grand total $323,931. Noted July 21 and Mar. 31.

O., Cincinnati — Hamilton Co., curbing, walks and concrete paving, etc. 57,600 sq.yd. Montgomery Rd., to Brewer & Brewer Sons, 215 Hazen Bldg., $265,124. Engrs. est. $311,783.

O., Millersburg—Holmes Co., slag paving, etc. 3 mi. Blissfield-Gayland Rd., to G. C. Smith, Millersburg, $21,985, and grading, etc. same road, to C. J. and P. Sheetz, Millersburg, $10,176.

O., Portsmouth — Director Pub. Serv., brick paving Winchester Ave., and concrete paving Vermont St., to Frowine Bros., Portsmouth, $19,386.

O., Zanesville—Concrete paving approximately 1 mi. Echo Ave., 28 ft., to Adams Bros., Zanesville, $45,000.

Michigan—R. A. Beirs, resident engr., Kalamazoo, concrete paving 1,312 mi. Mo 12-10 Contr. 1 and Mo13-15 Contr. 1 Branch and Calhoun Counties, 20 ft., for State Hy. Dept., Lansing, to Mollering Constr. Co., Fort Wayne, Ind., $32,109. Noted Aug. 18.

Mich., Birmingham—For 8 in. one course concrete paving 15,731 sq.yd. various streets, to Taylor Constr. Co., Birmingham, at $2.38 per sq.yd.

Mich., Lincoln Park (mail Detroit)—Grading, concrete curbing, guttering and one course concrete paving 200,000 sq.yd. Assessment Dists. 129 and 131, to Bishop & Weir, 955 East Jefferson Ave., Detroit, $52,076.

Mich., Port Huron—St. Clair Co. concrete paving 23,778 sq.yd. Special Assessment Dist. 101, 20 ft., to J. H. Baker & Sons, Port Huron, $80,239.

Mich., Royal Oak (Ind. br. Detroit) — For 8 in. one course concrete paving 22,480 sq.yd. Wyandotte, Etawah, 5th, 6th, 4th, Center, Irving and Longfellow Sts. to R. D. Baker, 1631 Elmhurst Ave., Detroit, $81,856.

Ill., Barrington—Concrete paving 20,000 sq.yd. various streets, to Powers & Thompson, Joliet, $60,000

Ill., Chicago — Cook Co., Hy. Dept., County Bldg., concrete paving 2.6 mi. Carpenter Rd., to W. A. Black & Co., 565 West Washington Blvd., $80,156; 2 mi. Willow Springs Rd., to J. M. Pierson & Co., Chicago Heights, $92,051; 6.7 mi. 183rd St., to States Impvt. Co., 160 North La Salle St., $258,182; 5 mi. 135th St., to Pronger Bros., Blue Island, $213,017; 2.2 mi. Burnham Ave., to G. A. Summerville, Harvey, $88,530; 2 mi. 154th St., to A. Ward & Sons, Inc., Lansing, $84,601; 2 mi. Euclid Ave., to F. E. Herdman, Winnetka, $73,802; 1.4 mi. Devon Ave., to Chicago Heights Coal Co., Chicago Heights, $71,168; 1.5 mi. 25th Ave., to S. Jaicks, 77 West Washington St., $71,707; 2.6 mi. 47th St., to Jaicks Bros., 77 West Washington St., $109,287; 4.1 mi. Cicero Ave. and 63rd St., to J. P. O'Keefe, 7854 South Ashland Ave., $165,510, 6 mi. McCarthy Rd., to Randolph Constr. Co., 400 North Michigan Ave., $280,181; portions Euclid and Wilkie Aves., to W. A. Black Co., 565 West Washington Blvd., $71,517; portions 157th St., to J. Mackler & Co., Chicago Heights, $208,686. Grand total $1,868,395.

Ill., Danville — Vermilion Co., concrete surfacing 1.25 mi. East Lynn-Iroquois Co. line Rd., to G. S. Little Constr. Co., Sullivan, approximately $25,000.

Ill., Mt. Prospect—Concrete paving, etc., 38,902 sq.yd. various streets, to Milburn Bros., 18th and Charles Sts., Rockford, $140,180.

Ill., Niles Center—Curbing, guttering and concrete paving 42,255 sq.yd. Main, Oakton, Cicero and Kenton Aves., also 17,970 lin.ft. concrete paving Gable Ave., to Arcole Constr. Co., Evanston, $150,714 and $62,112 respectively. Noted July 7.

Wisconsin — State Hy. Comn., Court House, Rhinelander, graveling, etc. approximately 6,723 cu.yd. Rhinelander-Monico Rd., Federal Aid Project 436-A, Oneida Co., to Interstate Eng. Co., Green Bay, $39,982; and 5,288 cu.yd. Park Falls-Butternut Rd., Price Co., to I. S. Ofstie, Menomonie, $37,262. Noted Aug. 4.

Wis., Milwaukee—Bd. Pub. Wks., R. E. Stoelting, comr., to Gumz & Switalski, 831 13th Ave., paving Appleton Ave. $21,935, Atkinson Ave. $34,651, Teutonia Ave. $8,690, and 61st St. $8,690; to W. F. Hunt, 445 Milwaukee St., Concordia Ave. $21,359, and 45th St. $23,032; to Badger Constr. Co., 97 East Wisconsin Ave., East Locust St. $8,325; to Wisconsin Asphalt Paving Co., 123 Wisconsin Ave., Prospect Ave. $34,506; Czerwinski Constr. Co., 765 National Ave., Sherman Blvd. $4,248, 39th St. $32,085, and 36th St. $5,596; to Kroening Constr. Co. ,5th St. and Windlake Ave., 60th St., $361; to Eastern Constr. Co., 3 alleys, $6,288; to N. Harris, Girard and St. Albans Sts., 1 alley, $4,564; to F. W. Blodgett, Inc., 521 Newton Ave., 1 alley, $1,143; to Blech Constr. Co., Milwaukee, 1 alley, $13,811; and to Schramkowski & Sons Co., 918 Dousman St., 2 alleys, $6,853. Grand total $356,627.

Wis., Waukesha—Grading and paving Waukesha Rd., to Milwaukee General Constr. Co., 427 Mitchell St., $99,032.

Ia., Allison—Butler Co., to J. H. Miller & Son, Newton, improving Primary Grading Project P-260, on Primary Road 10, 105,402 cu.yd. earth excav. at $0.28 per cu. yd., 292 cu.yd. rock excav. $0.75 and $1.75, and 720 ft. culvert labor $0.20.

Ia., Clinton—Clinton Co., clearing, grubbing, grading, etc. 4.2 mi. Wheatland-Big Rock Rd., to E. Sash, 1025 North 17th St., Cedar Rapids, $26,540.

Ia. Ft. Madison — Lee Co., to W. W. Cummings, Ottumwa, improving Project P-480, U. S. Highway 61, 132,053 cu.yd. earth excav. at $0.30 per cu.yd. and 80 cu.yd. $0.35, 200 cu.yd. rock excav. at $2 and $3, and 1,440 ft. 15- to 36-in. culvert labor $0.50 to $0.75 and to Wright Constr. Co., 1325 Main St., Des Moines, 6 in. rein.-con. paving 79,917 sq.yd. same road. $184,610.

Ia., Idagrove—Auditor Ida Co., to Lynch & Co., Castania, improving Project M-309, 3,750 cu.yd. crushed and screened gravel 1 mi. haul at $0.42 and $0.45 per cu.yd., 50,725 units ½ mi. haul $0.07, $0.08 and $0.09, 2,600 cu.yd. stripping $0.20, and 800 cu.yd. Class "A" gravel from cars $1.94. Noted July 28.

Ia., Mt. Ayr — Ringgold Co., to C. C. Barnes & Son, Equitable Bldg., Des Moines, improving 6.93 mi. Project P-484, 151,174 cu.yd. excav. at $0.295 per cu.yd., and 1,760 cu.yd. $0.35, 200 cu.yd. rock excav. $1.50 and $2, also 448 ft. culvert labor $0.40.

Ia., Muscatine—Muscatine Co., to J. H. Miller, Newton, improving 13.285 mi. Project 481, U. S. Highway 61, 234,600 cu.yd. excav. at $0.28 per cu.yd., 5,500 cu.yd. loose rock $0.60, and 6,946 cu.yd. solid rock $1.65, also 1,800 ft. culvert labor $0.20.

Ia., Newton—Auditor Jasper Co., to J. H. Miller, Newton, improving 9.814 mi. Project 99 180,730 cu.yd. excav. at $0.28 per cu.yd., 200 cu.yd. loose rock $0.65, and 200 cu.yd. solid rock $1.50, 928 ft. culvert labor $0.20.

Ia., Orange City—Sioux Co., to Van & Van, Hull, improving Project M-351, 6,400 cu.yd. crushed and screened gravel 1 mi. haul at $0.40 and $0.47 per cu.yd., 128,950 units additional haul $0.07 and $0.08, and 1,000 cu.yd. stripping $0.07.

Ia., Rock Rapids—Lyon Co., to Van & Van, Hull, improving Project M-313, 6,075 cu.yd. crushed and screened gravel 1 mi. haul at $0.45 and $0.50 per cu.yd., 37,875 units additional haul $0.08, and 1,400 cu. yd. stripping $0.25.

Ia., Spencer—Clay Co., grading 121,315 cu.yd. primary and secondary roads, to H. Noel, Peterson at $0.298 per cu.yd. Noted July 28.

Kan., Eldorado—Butler Co., grading, etc. 0.4 mi. Kansas Project 67-E, to M. R. Amerman, Wichita, $15,675. Noted July 21.

Kan., Ellsworth—Ellsworth Co., grading, etc., 7.81 mi. Kansas Project 62-A and B, to Campbell Bros., 608 Manufacturers Bldg., Kansas City, Mo., $46,721, and 3 bridges on same road, to F. C. Easterly, Ellsworth, $12,812.

Kan., Erie—L. R. Stanley, clk. Neosho Co., grading, and 4 bridges on 10.28 mi. Federal Aid Project 380-A, 28 ft., to A. L. Cook, Ottawa, $79,615 and $22,714 respectively.

Kan., Kansas City—Wyandotte Co., concrete paving 4.593 mi. Project 98, to Reed & Wheelock, Clay Center, $109,095.

Montana—State Hy. Comn., Helena (**F. A.P. means Federal Aid Project**), grading, etc. 175,802 cu.yd. Butte-Boulder Rd., F. A.P. 242-B, Silver Bow Co., to L. T. Lawler, Butte $156,798, 164,495 cu.yd. Poplar-Culbertson Rd., F.A.P. 240-A, Unit 1, Roosevelt Co., to J. E. Hilton, Miles City, $62,478 and 92,676 cu.yd. Yellowstone Canyon Rd., F.A.P. 217-D, Unit 1, Park Co., to J. W. Hershberger, Hardin $47,121; crushed graveling, etc. 7,857 cu.yd. Yellowstone Canyon Rd., F.A.P. 217-C, Unit 2 and 217-D Unit 3 Park Co., and 5,482 cu.yd. Forsyth-Miles City Rd., F.A.P. 135-A, Unit 1, Rosebud Co., to F. E. Collins, Billings, $25,312 and $51,912 respectively, 5,515 cu. yd. Big Timber-Columbus Rd., F.A.P. 127 C and D, Unit 1, Sweet Grass Co., to Morris Constr. Co., Great Falls $39,965, and 9,897 cu.yd. Dupuyer-Birch Creek Rd., F.A.P. 236-A, Unit 1, Pondera Co., to J. L. McLaughlin, Livingston $87,455; also scoria surfacing, etc. 9,891 cu.yd. Miles City-Broadus Rd., F.A.P. 198-A, Powder River Co., to N. D. Nichols, Medora, N. D., $32,730. Grand total $503,770.

Montana—State Hy. Comn., Helena (**F. A.P. means Federal Aid Project**), to R. A. Schwieger, Billings, grading, crushed graveling, etc. 5,075 cu.yd. F.A.P. 245-A, Unit 1, Richland Co. $36,362, 4,729 cu.yd. F.A.P. 130-B, Unit 1, Prairie Co. $35,492, 2,821 cu.yd. F.A.P. 138-B, Musselshell Co. $29,566, and 5,391 cu.yd. F.A.P. 229-B, Fergus Co. $66,343, to B. Helean, P. O. Box 700, Missoula, 4,188 cu.yd. F.A.P. 215-B and C, Missoula Co. $38,208, and to Fagenstrom Bros., Great Falls, 2,881 cu.yd. F.A.P. 218-B, Unit 1, Cascade Co. $24,285; to L. T. Lawler, Butte, grading and surfacing, etc. 11,045 cu.yd. F.A.P. 242-A, Unit 1, Jefferson Co., $86,128; and to Kiely & Lepp, Butte, grading, concrete paving, etc. 11,109 sq.yd. F.A.P. 68-B and 70-A and C, Deer Lodge and Silver Bow Counties, $43,555. Grand total $359,939.

Mo., Independence—Jackson Co., vibrated concrete paving Holmes St. between south city limits and 85th St., to T. P. Thompson, 3908 Forest Ave., $34,061.

Mo., Joplin—Asphalt on concrete paving 2,250 sq.yd. 20th St., to V. E. Koch, 417 Joplin St. at $1.78 per sq.yd.; warrenite bitulithic paving 800 sq.yd. 5th St. and 780 sq.yd. 21st St., to Granite Bituminous Paving Co., Ry. Exch. Bldg., St. Louis, at $1.83 and $1.95 respectively; also concrete paving 2,450 sq.yd. Sergeant Ave., and 7,500 sq.yd. Murphy St., to H. Kost, 2002 Jackson Ave. at $1.72 per sq.yd. Noted July 7.

Mo., Webster Groves (Ind. br. St. Louis) — Grading, concrete paving, etc., Bacon Ave. between Rock Hill and city limits, and Virginia Ave. between Edgar and Hazel Sts., to Industrial Track Constr. Co., Title

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Streets and Roads (Continued)

Guaranty Bldg., St. Louis, $7,207 and $3,929 respectively; Big Bend Ave. between Old Orchard St. and Log Cabin Lane and Ridge St. between Edgar and Selma Sts., to F. C. Stolle, 539 South Rock Hill Rd. $2,510 and $6,791 respectively; and Swan St. between Old Orchard St. and Laclede Station Rd., to C. M. Berry Constr. Co., Empire Bldg., $5,699. Grand total $26,136.

Arkansas—State Hy. Comn., Little Rock, grading 4.737 mi. road between Alma and Fine Springs, State Project C-71 S 15 A, to James & Hopper, Alma, $27,057; graveling 11 mi. Batesville-Heber Springs Rd., Federal Aid Project 240-B, to Ellis & Lewis, Muskogee, Okla., $37,798; grading, gravel surfacing, bridging, etc., 7.765 mi. road between Rhea Bridge and Paragould, Federal Aid Project 242-A, to Merchants Transfer Co., 117 East 2nd St., Little Rock, $78,392; 154 ft. treated timber bridge over Two Bayou, on Camden-Hampton Rd., Federal Aid Project 226-B, to J. W. Covington, Benton, $3,089; and bridge between McGehee and Arkansas City, State Project C 4 S 16 A, to J. F. Mullins, 1818 Chestnut St., Pine Bluff, $12,211. Grand total $158,547.

Ark., Fort Smith — City will resurface with concrete, etc., 3 mi. North 6th St., by day labor.

Tex., Amarillo—Asphalt paving approximately 2 mi. Wolflin Addition (Subdivision), to Wilmering & Mullen Constr. Co., Amarillo, $108,000.

Tex., Fairfield—Freestone Co., concrete paving, etc., 165,000 sq.yd. State Highway 7 between Turlington East and point near Trinity River, to Tibbetts Constr. Co., Joseph Bldg., Ft. Worth, $468,876. Engrs. est. $490,000.

Okla., Newkirk—Kay Co., paving 21,120 sq.yd. roads, to Staunton & Wallace, Leavenworth, Kan., at $2.20 per sq.yd., total $46,464; and 11,258 sq.yd. roads to Rightmire & Baldwin, Ponca City, Okla., at $2.30, total $25,893.

Okla., Sapulpa—Creek Co., grading and concrete surfacing 13,102 sq.yd. County Road 7-A, to Altman Rogers Co., McAlester, $24,882. Engrs. est. $28,800.

Okla., Tulsa—Grading, curbing and sheet asphalt paving 7,875 sq.yd. Dists. 814 and 818, to H. L. Cannady & Co., 1122 South Lewis St., $31,913, engrs. est. $33,640; also grading and sheet asphalt paving 6,210 sq.yd. Dist. 318, to Standard Paving Co., 1742 East 6th St., $23,196. Engrs. est. $25,460.

Idaho — J. D. Wood, comr. Pub. Wks., Boise, Aug. 13, crushed rock surfacing, etc., 11,900 cu.yd. road between Weiser and Midvale, Federal Aid Project 40-A, to Joslin & McAllister, Willows, Ore., $31,719, and 21,-000 cu.yd. Federal Aid Project 129-A, Ada and Boise Counties, to H. E. Cornell, Boise, using concrete pipe, $107,078; also crushed graveling 4,000 cu.yd. Old Oregon Trail, Payette Co., to W. E. Storm, Weiser, $7,000. Grand total $145,797.

Nevada—State Hy. Comn., Carson City, grading, graveling, etc. 18,200 cu.yd. Federal Aid Project 99, Douglas and Ormsby 3-C3-4, Contr. 165, to Nevada Rock & Sand Co., Reno, $73,719; corrugated metal pipe for above, to Western Pipe & Steel Co., 444 Market St., San Francisco, Calif., $1,232. Noted Aug. 11.

Washington—State Hy. Comn., Olympia, **(S. R. means State Road)**, crushed graveling, etc., 14,950 cu.yd. S. R. 5, Lewis Co., to G. M. Hazard, Wilson & Abraham, Stevenson, $22,600, and 3,180 cu.yd. same road, to Rock Constr. Co., Inc., 1514 South Ainsworth Ave., Tacoma, $5,962; grading, etc., 56,500 cu.yd. S. R. 12, Lewis Co., to Hendricks & Olson, Chehalis, $49,761, 67,-000 cu.yd. S. R. 12, Pacific Co., to A. Wallin, P. O. Box 115, Montesano, $35,016; also grading and concrete paving 3 mi. S. R. 1, near Burlington, to J. H. Collins & Co., Box 1014, Everett, $32,344. Grand total $145,683. Noted July 28.

Wash., Hoquiam—City Council, concrete paving N St. et al, to Greene Eng. Co., Aberdeen, $33,075.

Wash., Seattle—King Co., Court House, grading 0.5 mi. and concrete paving 1 mi. Kent-Des Moines Highway, 20 ft., to Simpson Realty & Securities Co., Kent, $35,450.

Oregon—State Hy. Comn., Salem, surfacing, etc., 12.52 mi. Garibaldi Roosevelt Highway, Tillamook Co., to Newport Constr. Co., Newport and Portland, $90,-460, and 11.32 mi. Lakeside Sect. Roosevelt Highway, Douglas and Coos Counties, to R. E. Johnson, Portland, $96,568; macadamizing 1.71 mi. Harlow Pass Sect. Mt. Hood Highway, Hood River Co., to H. G. Johnson, Alsea, $30,395; and furnishing maintenance materials for Loe Passe Sect. Willamette-Florence Highway, Lane Co., to A. S. Wallace, Portland, $35,080. Grand total $252,593.

Calif., Hawthorne — Curbing, guttering, walks and asphaltic concrete paving Maryland Ave., etc., to Oswald Bros., 366 East 58th St., Los Angeles, $71,870. Noted Aug. 11.

Calif., Los Angeles — Grading, asphaltic concrete and concrete paving, etc. Indiana St. between 1st St. and Mines Ave., to P. J. Akmadzich, Wilcox Bldg., $291,178.

Calif., Los Angeles—Curbing, guttering, and National asphaltic concrete paving, etc. 108th St. between Figueroa St. and Vermont Ave., to Griffith Co., 502 Los Angeles Ry. Bldg., $46,673. Engrs. est. $44,033.

Calif., Los Angeles—Curbing, guttering, walks and concrete paving, etc. Otsego St. between Lankershim Blvd. and Tujunga Ave., to McCray Co., 4482 East Worth St., $26,070.

Calif., Martinez—J. H. Wells, clk. Contra Costa Co., oil macadam paving 4 mi. portion Border Highway, to Heafey-Moore Co., 344 High St., Oakland, $31,173.

Calif., Marysville—Grading and 1½ in. Warrenite bitulithic on 2½ in. asphalt paving, etc. B and 17th Sts., etc., to Warren Constr. Co., 28th and Poplar Sts., Oakland, approximately $50,000.

Calif., Stockton—Grading, 2 in. cement on gravel paving streets in Bungalow Park and Elm Tracts, to Clark & Henery Constr. Co., 930 East Anderson St., $68,903.

Calif., Ventura — Ventura Co., grading and concrete paving Ventura Ave., to Silveria & Robbins, 824½ Main St., $73,089.

Calif., Yuba City—Sutter Co., asphaltic macadam on rock paving 5 mi. roadway from Rio Oso to Pleasant Grove, and 5½ mi. roadway from Pleasant Grove Rd., to Placer Co. line, to M. J. Bevanda, Warden Bldg., San Luis Obispo, $42,030 and $44,-552 respectively.

B. C., North Vancouver—Concrete paving 14,200 sq.yd. new low level waterfront highway through Moodyville, to Vancouver Pile Driving Constr. Co., 207 Hastings St. W., Vancouver, $39,195.

B. C., Vancouver—Widening, concrete curbing and asphaltic concrete paving 2,-600 ft. Pacific St., 36 ft., to Columbia Bitulithic Co., 500 Beatty St., $26,798.

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Buildings—Commercial

Proposed Work

Mass., Attleboro — HOME, CLUBHOUSE and STORE—B. P. O. E. 1014 c/o O'Malley & Fitzsimmons, archt., Fanning Blk., Pawtucket, R. I., having revised plans prepared 2 story and basement, brick and stone, plain foundation, Winter St. $150,000-$175,000. Former bids rejected. Noted Aug. 4.

Mass., New Bedford — TERMINAL, FRUIT and PRODUCE TERMINAL — E. T. Fisher Co., Union and Water Sts., having plans prepared by Leary & Walker, Times Bldg., brick, Union St. To exceed $150,000.

N. Y., Brooklyn—STORE, OFFICE and SHOWROOM — Ludwig Bauman & Co., having plans prepared by Buchman & Kahn, 49 West 45th St., New York City, 10 story, 72 x 97 x 171 ft., brick and stone, Hoyt, Schermerhorn and Livingston Sts. $2,500,000.

N. J., Bradley Beach—HOTEL—Hotel La Reine Corp., Ocean Ave., plans altering present hotel and constructing 6 story and basement, brick and steel addition, plain foundation, La Reine and Ocean Aves. $1,000,000. Engineer and architect's names withheld.

N. J., Camden—GARAGE and SALES—Edwards & Green, archts., 548 Federal St., soon lets contract 2 story and basement, 74 x 100 ft., rein.-con., brick and architectual terra cotta, plain foundation, Haddin and Euclid Aves., for Camden Motors Co., 525 Market St.

N. J., Irvington (br. Newark)—APARTMENT—C. Dilena, c/o D. J. Scrocco, archt., 60 Park Pl., Newark, having plans prepared 4 story and basement, 92 x 100 ft., brick and steel, plain foundation, Chancellor Ave. and Cornell St. $150,000.

N. J., Jersey City—THEATRE—State Theatre Corp., J. E. Bernstein, pres., 2854 Hudson Blvd., takes bids about Sept. 15, brick and steel, plain foundation, 2836-38 Hudson Blvd. $200,000. Engineer and architect not selected.

N. J., Newark—APARTMENT—M[illegible] Ave. Constr. Co., c/o H. F. Clark, archt., [illegible] Clinton St., having plans prepared 5 story and basement, brick and steel, plain foundation, Elizabeth St. and Mapes Ave. $150,000.

N. J., Newark — CLUB — Ancaster Co., c/o Simpson & Rolston, archts., 45 Walnut St., had revised plans prepared 12 story, 100 x 100 ft., brick and steel, plain foundation. $500,000. Noted Apr. 28.

N. J., Newark — HOSPITAL — Presbyterion Hospital, 25 South 9th St., having plans prepared by Sutton, Sutton & Calkins, 402 Broad St., 6 story and basement, brick and steel, plain foundation, 9th Ave. and 9th St. $500,000. Noted May 19.

N. J., New Brunswick—COMMERCIAL—Pub. Serv. Production Co., archts., 80 Park Pl., Newark, soon lets contract 2 story and basement, brick and steel, plain foundation, here, for Pub. Serv. Electric & Gas Co., 80 Park Pl., Newark. $150,000. Noted July 21.

N. J., Orange—APARTMENTS—Filsel Realty Co., c/o A. Ginsberg, archt., Hillside Ave., Nutley, having plans prepared two 5 story and basement, brick and steel, plain foundation, 28-32 Linden Pl., here. $200,000.

N. J., Paterson — COMMERCIAL and OFFICE — B. Greemauer Co., 29 Church St., will not construct 2 story and basement, 55 x 150 ft., brick and steel, plain foundation, 23-25 Church St. $150,000. Project abandoned. Noted July 7.

N. J., Passaic—HOTEL—Stein Securities Co., Inc., H. Stein, pres., 201 Lexington Ave., having plans prepared by F. Wentworth, 140 Market St., Paterson, 4 story and basement, brick and steel, plain foundation, Main Ave. and Henry St. $200,000. Noted Aug. 4.

N. J., Paterson — SHOWROOM and SERVICE STATION — A. E. Sleight, archts., 138 Washington St., soon let contract 1 story and basement, 100 x 300 ft., brick and steel, plain foundation, Market and 36th Sts., for J. A. McCrane Motors Co., 638 Market St. $150,000. Noted Aug. 25.

N. J., Union — APARTMENT — Union County Housing Corp., c/o F. A. Elsasser, archt., 845 Broad St., Newark, will not construct 4 story and basement, brick and steel, plain foundation, Floyd Village Track, here. $150,000. Project abandoned. Noted Aug. 4.

Pa. Germantown (Phila. P. O.)—THEATRE, APARTMENT and OFFICE—R. L. Perot, archt., 137 Harvey St., preparing plans 4 story and basement, 85 x 160 ft., brick and steel, plain foundation, here. Owner's name withheld.

Pa., Phila. — APARTMENT — See "Contracts Awarded."

Pa. Phila. — APARTMENT — W. Grossman, c/o H. H. Kline, archt., 709 Chestnut St., having plans prepared 12 story and basement, 100 x 103 ft., rein.-con., brick and steel plain foundation, 38th and Chestnut Sts.

Pa., Phila. — GARAGE — H. H. Kline, archt., 709 Chestnut St., preparing plans 2 story, 64 x 150 ft., rein.-con. and brick, plain foundation, 2020 North Hancock St. Owners name withheld.

Pa. Phila.—LOFT—B. Shulman, archt., 1722 Arch St., soon takes bids rein.-con. and brick, plain foundation, 450-52 North 2nd St. $175,000. Owner's name withheld.

Pa., Phila.—STORE and LOFT—Associated Realty Co., 1600 Walnut St., having plans prepared by M. M. Boonin, 23 South 16th St., and soon takes bids 5 story and basement, 36 x 123 ft., rein.-con. and brick, plain foundation, 13th and Lombard Sts.

Pa., Phila. — THEATRE — H. R. Whitaker, 726 Nedro St., having plans prepared by Hodgens & Hill, 130 South 15th St., 1 story and basement, 82 x 139 ft., rein.-con., brick and steel, plain foundation, 5th and Roslyn Sts.

Pa., Sewickley — HOSPITAL—Sewickley Valley Hospital having sketches made by Schmidt, Garden & Erickson, archts., 104 South Michigan Ave., Chicago, Ill., 3 and 5 story, brick, Blackburn Rd. $1,000,000. Noted Feb. 3.

Md., Baltimore — APARTMENT—Owner, c/o G. E. Saulsbury, 3330 St. Paul St., having plans prepared by Palmer, Willis & Lamdin, 513 North Charles St., 8 story, irregular brick and stone, plain foundation, University Ave. and 40th St. $450,000.

Va., Richmond — GARAGE — Richmond Storage & Serv. Garage, Inc., J. L. Moon,

Buildings—Commercial (Continued)

pres., Electric Bldg., plans 71 x 130 x 164 ft., steel concrete and stone, 6th and Franklin Sts. $350,000. Noted June 16.

O., Columbus—J. A. Beer, 236 15th Ave., soon lets contract 8 story and basement, 90 x 135 ft., brick, steel and stone, incl. swimming pool, South 4th St., for Y. W. C. A., 60 South 3rd St. $600,000. Miller & Reeves, 205 East Broad St., archts.

O., Warren — BANK — Western Reserve Bank plans bank and office building. $350,000.

Ind., Terra Haute—BANK—Natl. Bank having plans prepared by Johnson-Miller-Yeager, 30 North St., remodeling bank, 600 bank, 600 Blk. on Wabash Ave. $185,000.

Ind., Terra Haute — OFFICE — L. E. Waterman having plans prepared by G. J. Stoner Co., 19 Chanticleer Bldg., 2 story and basement, 141 x 150 ft., brick, steel and stone, Cherry St. between 6th and 7th Sts. $160,000.

Mich., Birmingham — OFFICE — J. Couzens having sketches made 8 story and basement, rein.-con., brick, steel and stone, plain foundation, West Maple and Bates Sts. $1,000,000.

Mich., Detroit — APARTMENT — Owner, c/o F. O. Varney, archt., 2847 Grand River Ave., having plans prepared 3 story and basement, 150 x 170 ft., brick, steel and rein.-con., plain foundation, Putnam Ave. $300,000.

Ill., Chicago—APARTMENT and STORE—A. Eisenstein, c/o Dubin & Eisenberg, archts., 14 West Washington St., having plans prepared and soon takes bids 3 story and basement, 111 x 140 ft., brick, Madison and Mayfield Sts. $300,000.

Ill., Chicago — HOTEL and STORE — Allied Building Corp., c/o Hall, Lawrence, Rippel & Ratcliffe, archts., 123 West Madison St., having plans prepared and takes bids about Sept. 23, 13 story and basement, 75 x 125 ft., rein.-con., brick and terra cotta, incl. swimming pool, kitchenette, etc., Van Buren and Woods Sts. $1,000,000.

Wis., Milwaukee—APARTMENT—R. E. Oberst, archt., 128 Wisconsin Ave., soon lets contract 5 story and basement, 105 x 114 ft., rein.-con. and brick, Marshall St. Owner's name withheld.

Wis., Milwaukee—APARTMENT—Lillydahl Corp., 425 East Water St., plans 8 story and basement, 120 x 127 ft. apartment, Case and Ogden Sts. $500,000. Engineer and architect selected soon.

Neb., Wilber — COURT HOUSE — Saline Co. having plans prepared by M. L. Evans, Hastings, 3 story and basement, 70 x 100 ft., stone court house. $175,000. Noted July 14.

Tex., Galveston—OFFICE—Amer. Natl. Insurance Co., c/o S. Moody, pres., Beaumont, takes bids after Oct. 1, 11 story and basement, 43 x 84 x 120 ft., rein.-con., brick and steel, plain foundation, 21st and Mechanic Sts., here. $400,000. A. Fraser, 624 Amer. Natl. Insurance Bldg., Beaumont, archt.

Tex., San Antonio—OFFICE—Merchants Transfer Co., c/o A. L. Langston, mgr., having plans prepared by H. S. Green, Alamo Natl. Bank Bldg., 10 story, 240 ft. frontage, rein.-con., brick, stone and tile, Dolorosa St. and Military Plaza. $600,000.

Okla., Oklahoma City—STORE—R. M. Scott, 412 West Main St., having preliminary plans prepared 2 story and basement, 125 x 140 ft., rein.-con. and brick, plain foundation, 13th St. and Robinson Ave. $150,000. Engineer and architect not selected.

Ore., Portland — OFFICE, STORE and WAREHOUSE—L. L. Dougan, archt., Kreamer Bldg., takes bids in spring 11 story, 100 x 100 ft. office and store building $200,000, also 4 story, 200 x 200 ft. warehouse, $100,000, both rein.-con., brick and steel, for H. Jennings & Sons, Washington St.

Calif., Glendale — MEDICINE — Professional Building Co., 1052 West 6th St., Los Angeles, having preliminary plans prepared by A. F. Priest, 719 Fay Bldg., Los Angeles, 8 story and basement, 48 x 100 ft., rein.-con. and steel, here. $350,000.

Calif., Hollywood—HOTEL—A. LeBrun, archt., Palmer Bldg., preparing preliminary plans 5 story, 84 x 90 ft., brick hotel. $225,000. Owner's name withheld.

Calif., Ione — HOSPITAL and CLASSROOM—State Building Comn., Sacramento, having plans prepared by Dean & Dean, California State Life Bldg., Sacramento, two 2 story, rein.-con. and brick, here. $150,000.

Calif., Loma Linda—HOSPITAL—Loma Linda Sanitarium having plans prepared by R. D. Weston, 517 I. W. Hellman Bldg., Los Angeles, 2 story and basement, 40 x 200 ft., rein.-con. addition. $150,000.

Calif., Los Angeles — APARTMENT — Owner, c/o E. Northman, archt., 3052½ West Pico St., having preliminary plans prepared 4 story and basement, 57 x 150 ft., brick, Grand Ave. $150,000.

Calif., Los Angeles—STORE and LOT—Foreman & Clark, Metropolitan Bldg., 5th Ave. and Bway., having plans prepared by Curlett & Beelman, archts., Union Bank Bldg., 12 story and basement, 90 x 130 ft., steel and rein.-con., 7th and Hill Sts. $500,000.

Calif., Oakland—OFFICE—Fairview Properties Corp., L. L. Taylor, mgr., Ray Bldg., had plans prepared by Young Co., 339 15th St., 5 story and basement, rein.-con. and steel, 13th Ave. $150,000.

Calif., Sacramento—HOTEL—F. S. Harrison, archt., Peoples Bank Bldg., making preliminary sketches 5 story, 112 room, brick and concrete hotel. $150,000. Owners name withheld.

Calif., San Francisco — MERCHANDISE and LOFT — Butler Bros., 495 Bway., New York City, having plans prepared by Bliss & Fairweather, Balboa Bldg., 7 story and basement, rein.-con., south of market district, here. $700,000. T. Ronneberg, Crocher Bldg., engr. Noted Aug. 25 under "Buildings—Industrial."

Calif., Santa Monica—MAUSOLEUM—G. H. Sanders, Santa Monica Bldg., had plans prepared by W. H. Hubbert, 110 Sutter St., San Francisco, concrete and marble, 380 crypts. $180,000. Noted July 14.

Calif., Santa Maria — THEATRE and LODGE — C. J. Weyl, archt., Guaranty Bldg., Los Angeles, soon takes bids 2 story and basement, rein.-con., 1,200 seating capacity, here, for West Coast Theatres, Inc., Film Exch. Bldg., Los Angeles, $200,000.

Calif., Sonoma — HOSPITAL — State Building Comn., Sacramento, having plans prepared by W. B. Faville, 1st Natl. Bank Bldg., San Francisco, fireproof, here. $150,000.

Calif., Yountville — BARRACKS — State Building Comn., Sacramento, having plans prepared by W. C. Hays, 1st Natl. Bank Bldg., San Francisco, 2 story, concrete and tile, here. $170,000.

Bids Desired

Mass., Brookline (br. Boston)—APARTMENT—See "Contracts Awarded."

Mass., Cambridge (Boston P. O.) — HOME — City c/o C. R. Greco, archt., 11 Beacon St., Boston, taking bids 3 story and basement, 140 x 400 ft., brick and stone, plain foundation, Concord Ave. $200,000.

Mass., Danvers — HOME — Sept. 9, by Dept. of Mental Diseases, Boston, 3 story and basement male attendants home, brick and stone, plain foundation, at Danvers State Hospital, here. G. Robb, 14 Beacon St., Boston, archt.

Mass., Hyde Park (Ind. Sta. Boston)—APARTMENT—See "Contracts Awarded."

Mass., Springfield—STORE and OFFICE—C. P. Pettis, c/o W. E. Dibble, archt., 21 Besse Pl., taking bids 2 story and basement, 90 x 110 ft., brick and stone, plain foundation, Dwight and Worthington Sts. $150,000.

Mass., Waltham (Boston P. O.) — BANK — Waltham Natl. Bank, F. Sears, 637 Main St., taking bids 1 story and basement, rein.-con., brick, steel and limestone, plain foundation, Moody and Branch Sts. $150,000. H. E. Davidson & Son, 46 Cornhill, Boston, archts.

N. Y., New York — APARTMENT — See "Contracts Awarded."

N. Y., New York—BARRACKS—Sept. 7, by B. S. Coler, comr. Pub. Welfare, Municipal Bldg., altering and constructing male barracks additions, City Home Dist., Welfare Island, here.

N. J., Elizabeth — APARTMENT — See "Contracts Awarded."

N. J., Newark — APARTMENT — See "Contracts Awarded."

Pa., Phila.—OFFICE—Sept. 9, by R. B. Bencker, archt., 13th and Chestnut Sts., 12 or 13 story and basement, 103 x 115 ft., rein.-con., brick, steel and limestone, plain foundation, West Washington Sq., for N. W. Ayer & Son, 308 Chestnut St. $1,000,000.

Pa., Phila.—THEATRE—Sept. 2, by B. J. Krapp, archt., 1 West 47th St., New York City, 1 story, balcony and basement, 105 x 143 ft., rein.-con., brick, steel and terra cotta, plain foundation, 13,859 sq.ft. floor space, Quincy and Walnut Sts., here, for Shubert Theatre Co., 225 West 44th St., New York City. Noted July 28.

Pa., Phila.—Sept 12, by L. E. Jallade, archt., 15 East 47th St., New York City, 27 story and basement, 85 x 110 ft., rein.-con., brick and steel, concrete foundation, 15th and Cherry Sts., for Y. M. C. A., 1425 Arch St., here. $1,500,000. Noted Aug. 4.

D. C., Wash.—MEMORIAL—Amer. Natl. Red Cross, E St. near 17th St. N. W., taking bids general contract Monumental Memorial Building (Women of World's War). $500,000. Trowbridge & Livingston, 527 5th Ave., New York City, archts.

Ill., Chicago—APARTMENT—Leichenko & Esser, archts., 38 South Dearborn St., taking bids 3 story and English basement, brick and stone, Laramie Ave. and Congress St. Owner's name withheld.

Okla., Norman—HOSPITAL—Sept. 14, by Bd. of Affairs, Capitol, Oklahoma City, 3 story and basement, 77 x 140 ft., rein.-con. and brick, plain foundation on campus, here, for State Insane Hospital. $150,000. J. Hicks, Braniff Bldg., Oklahoma City, archts. Noted June 23.

Okla., Norman—WARD—Sept. 14, by Bd. of Affairs, Capitol, Oklahoma City, 3 story and basement, 90 x 170 ft., rein.-con. and brick, plain foundation, on campus, here, for State Insane Hospital. $175,000. J. Hicks, Braniff Bldg., Oklahoma City, archt.

Okla., Oklahoma City — HOSPITALS — Sept. 12, by State Bd. of Affairs, two 3 story and basement, rein.-con. and brick, plain foundations, one 80 x 240 ft. for crippled children, $300,000, other medical building, $250,000, both for State University, 13th St. J. Hicks, Braniff Bldg., archt.

Okla., Talihina—HOSPITAL—Sept. 14, by State Bd. Affairs, Capitol, Oklahoma City, 2 story and basement, 90 x 190 ft., brick, plain foundation, on campus, here. $150,000. A. J. Love & Co., Lynch Bldg., Tulsa, archt.

Calif., Los Angeles—APARTMENT—See "Contracts Awarded."

Calif., Los Angeles—HOTEL—See "Contracts Awarded."

Ont., Toronto—STORE and APARTMENT—W. Moad, 50 Glenview Ave., taking bids 3 story and basement, rein.-con., brick and steel, plain foundation, Yonge St. $150,000. D. B. Burnham, 260 Lauder Ave., archt.

Contracts Awarded

Mass., Boston—GARAGE—Pub. Garage, 2 story and basement, 225 x 265 ft., rein.-con. and brick, plain foundation, Gainsboro and St. Botolph Sts., to J. Shapiro & Son, 27 School St. Archts. est. $300,000.

Mass., Brookline (br. Boston)—APARTMENT—Dwight Trust, A. Kaplan, 70 Winchester St., will build 3 story and basement, 100 x 100 ft., brick and stone, plain foundation, Textoth and Travers Sts. $150,000. Work will be done by separate contracts. Silverman, Brown & Heenan, 51 Cornhill, Boston, archts.

Mass., Hyde Park (Ind. Sta. Boston)—APARTMENT—Realty Trust, A. H. Sherry, Almont St., Dorchester, will build 3 story and basement, 7,000 sq.ft. floor space, brick and stone, plain foundation, River St., here. $150,000. Work will be done by separate contracts. S. E. Moffie, 51 Cornhill, Boston, archt.

Mass., Malden (br. Boston) — APARTMENT—A. L. Carpenter, 157 Summer St., general contract 8 story and basement, brick, plain foundation, Summer and Clifton Sts., to A. H. Bowditch, 44 Bloomfield St., Boston. Archts. est. $200,000. Noted Aug. 25.

R. I., Burrillville (mail Harrisville) — HOSPITAL — Pub. Welfare Dept., State House, Providence, brick and steel sanatorium, here, to Lamoureux Bros., 546 Park Ave., Woonsocket. Archts. est. $150,000. Noted Aug. 11.

Conn., Meriden — BUSINESS — B. Soloman & C. D. Vetrano, 402 Church St., New Britain, 3 story, 100 x 150 ft., brick and steel, incl. 100 car garage, Colony and Brooks Sts., to L. Suzio Constr. Co., Brooks and State Sts. Archts. est. $150,000.

Conn., New Britain—TEMPLE—Masonic Temple Corp., S. Raymond, chn. building com., 2 story and basement, 70 x 110 ft., brick, steel and limestone, Russell and West Main Sts., to W. H. Allen Co. Inc., 12 Glen St. Archts. est. $160,000. Noted July 21.

Conn., Norwich—BUSINESS—Silverman Furniture Co., c/o F. Urso, archt., 432 Main St., Stamford, 8 story, 47 x 50 ft., brick and steel, Main and Water Sts., here, to Wood Co., Main St., Stamford. Archts. est. $150,000. Noted May 12.

Conn., Stratford — TEMPLE — Masonic Temple Assn., Main St., 3 story and basement, brick, steel, stone and marble, Main St., to H. Maring, Jr., 536 Lindley St., Bridgeport. Archts. est. $150,000. Noted Aug. 4.

N. Y., New York — APARTMENT — Crunow Building Corp., 215 Montague St.,

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Buildings—Commercial (Continued)

Brooklyn, will build 6 story and basement, 87 x 100 ft., rein.-con. and brick, plain foundation, Cruger and Arrow Aves., here, $180,000. Work will be done by separate contracts. Franklin, Bates & Heindsman, 2526 Webster Ave., New York City, archts.

N. Y., New York—STORE, OFFICE and LOFT — Owner, c/o Houston Properties Corp., 200 Madison Ave., general contract 35 story store, office and loft, on approximately 75 x 200 ft. site, East 39 and East 40th Sts. between 5th and Madison Aves., to G. Richard Davis & Co., Inc., 12 East 41st St. Archts. est. to exceed $150,000.

N. J., Elizabeth — APARTMENT — D. Duchin, 15th St., Linden, will build 5 story and basement, brick and steel, plain foundation, 1206 De Hart Pl. $175,000. Work will be done by separate contracts. Noted July 7.

N. J., Jersey City—GARAGE—J. Begtrub, 3468 Hudson Blvd., general contract 3 story and basement, 50 x 90 ft., brick and steel, plain foundation, Hudson Blvd. and Charles St., to J. Mitchell, Inc., 999 Bergen Ave. Archts. est. $150,000. Noted May 17.

N. J., Jersey City—GARAGE—J. Connolly, Inc., 623 Jackson St., Hoboken, general contract 2 story and basement, 100 x 100 ft., brick and steel, plain foundation, Montgomery and Monn Aves., to D'Elia Contg. Co., 994 Westside Ave., Jersey City. Archts. est. $150,000.

N. J., Newark—APARTMENT—Tower Realty Co., 36 Clinton St., will build 5 story and basement, brick, steel, plain foundation, 66 Crawford St. $150,000. Work will be done by separate contracts. Siegler & Greenberg, 164 Market St., archts. Noted Aug. 18.

N. J., Newark—OFFICE—P. J. Bowers & Co., 189 Market St., general contract 2 story and basement, 50 x 275 ft., brick and steel, plain foundation, Morris Canal, Washington and Plum Sts., to R. Allen, Inc., 319 Mt. Pleasant Ave. Archts. est. $150,000.

N. J., New Brunswick — OFFICE — A. Merchant, archt., 52 Patterson St., general contract 3 story and basement, 30 x 90 ft., brick and steel, plain foundation, Church St., to Highland Park Building Co., 238 Cleveland Ave., Highland Park, for J. O'Connell, 392 George St. Archts. est. $150,000. Noted Aug. 4.

N. J., Passaic—HOTEL and STORE—Stein Securities Co., Inc., H. Stein, pres., 201 Lexington Ave., general contract 4 story and basement, brick and steel, plain foundation, Main Ave., to J. W. Ferguson Co., 152 Market St., Paterson. Archts. est. $200,000. Noted Aug. 25.

N. J., Perth Amboy—PASSENGER STATION—New York Central R.R. Co., 466 Lexington Ave., New York City, F. B. Freeman, ch. engr., general contract 2 story, 45 x 120 ft., and 12 x 100 ft., brick and steel plain foundation, here, to Anderson & Wheeler, Inc., 1571 Richmond Terrace, Port Richmond, N. Y. Engrs. est. $150,000. Noted July 28.

N. J., Summitt — COMMERCIAL — Pub. Serv. Production Co., archts., Terminal Bldg., Newark, general contract 1 story and basement, 60 x 125 ft., brick and steel, plain foundation, Springfield and Summitt Aves., to Kirkpatrick Constr. Co., 185 Market St., Newark. Archts. est. $150,000. Noted July 14.

Pa., Beaver Falls—CITY HALL—Beaver Falls Boro, Boro Hall, general contract 2 story and basement, 68 x 100 ft., 15th St. and 8th Ave., to Cook-Anderson Co., Beaver. Archts. est. $150,000. Noted June 9.

Pa., Phila.—APARTMENT—S. Hankin, 5200 Gainer Rd., will build 4 story and basement, 104 x 106 ft., brick and steel, plain foundation, Washington Ave. and School Lane. Work will be done by separate contracts. Stetler & Dysher, 1008 Chestnut St., archts.

Pa., Phila. — GARAGE — Ballinger Co., archts., 12th and Chestnut Sts., 2 story, 120 x 230 ft., rein.-con. and brick addition, plain foundation, 23rd and Ludlow Sts., to H. E. Baton, 1713 Sansom St., for Auto Club of Phila. Noted Aug. 4.

Md., Baltimore — PUBLISHING — The Sun, Charles and Baltimore Sts., altering newspaper office and plant, brick, tile, steel and stone, Baltimore and Charles Sts., to Morrow Bros., Fidelity Bldg., $150,000.

D. C., Wash. — OFFICE and STOREHOUSE—Washington Gas & Light Co., 411 10th Ave. N. W., general contract office and storehouse, North Canal St. between 29th and 30th Sts. N. W., to Davis, Wick & Rosengarten Co., 1406 G St. N. W. Archts. est. $250,000.

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O., Cincinnati—HOSPITAL—Christian R. Holmes Hospital, Bethesda Ave., 4 story and basement, brick and rein.-con., plain foundation, Bethesda Ave., to M. Penker & Sons, 123 Valencia St., $450,000. Noted Aug. 18.

O., Columbus—BANK—Citizens Trust & Savings Bank, Gay and High Sts., 1 story and basement, 40 x 150 ft., brick, steel and concrete, East Town St., to L. L. LeVeque, Edgehill Rd., approximately $150,000.

O., Lorain—THEATRE—and COMMERCIAL — Midwest Properties Co., S. H. Stecher, pres. Union Bldg., Cleveland, 2 story and basement, 100 x 185 ft., brick, steel and concrete, Bway., here, to Piscopo Constr. Co., 1248 Walnut Ave., Cleveland. Archts. est. $300,000. Noted June 23.

Ind., Gary—APARTMENT—T. H. Grajowski, 1710 Bway., general contract 3 story and basement, steel and terra cotta, 900-918 5th Ave., to J. Wasielewski, 1392 Jackson St. Archts. est. $150,000. Noted Apr. 28.

Ind., Indianapolis—COMMUNITY—Park Comrs., City Hall, general contract 2 story, brick, steel and terra cotta, Brookside Park, to E. C. Strathmann, 712 Meyer-Kiser Bldg. Archts. est. $150,000.

Mich., Detroit—THEATRE, STORE and GARAGE—See "Proposed Work."

Mich., Detroit—THEATRE, STORE and GARAGE—A. Kahn, archt., 1000 Marquette Bldg., takes bids about Sept. 15, general contract 10 story with 25 story tower, and basement, 485 x 820 ft., rein.-con., brick, steel and stone, West Grand Blvd., for New Center Development Co., Fisher Bros., General Motors Bldg. Foundation for above awarded to General Excavation & Foundation Co., 1252 Book Bldg.; and steel, to Amer. Bridge Co., 1328 Buhl Bldg., Noted Jan. 27.

Mich., Muskegon — OFFICE — Muskegon Chronicle, 3 story and basement, 50 x 140 ft., brick, steel, and concrete, plain foundation, to Strom Constr. Co., 357 Houseman Bldg., Grand Rapids. Archts. est. $150,000.

Mich., Redford (Franklin Village P. O.) —CLUB—Redford County Club, Franklin Village, 1 and 2 story and part basement, 50 x 250 ft., 78 x 110 ft. and two 51 x 114 ft. wings, rein.-con. and brick, plain foundation, 13 Mile Rd., here, to N. M. Lerner Constr. Co., 1442 Griswold St. Noted June 9.

Ill. Chicago—APARTMENT—Skobel & Greenberg, 1412 Bertran Ave., masonry contract 8 story, 60 x 124 ft., brick, Lakeside Pl., to H. Janisch & Co., 1813 Winona St. Archts. est. $290,000.

Ill., Chicago—STORE—Syndicate, c/o A. Epstein, archt., 2001 West Pershing Rd., masonry contract 3 story, 131 x 150 ft., brick and terra cotta, 80,000 sq.ft. floor space, East 47th St. near South Parkway, to J. Shedden & Co., 106 North La Salle St.; and carpentry to Heidel & Beck, 6235 South Michigan Ave. Archts. est. $250,000.

Ill., Chicago — WAREHOUSE—Holabird & Roche, archts., 104 South Michigan Ave., general contract 6 story, 141 x 241 ft., rein.-con., brick and stone, 2524-58 23rd St. W., for Illinois Bell Telephone Co., 212 West Washington St., to Schmidt Bros. Constr. Co., 22 East Huron St.; plumbing, to Fort Dearborn Heating & Plumbing Co., 53 East Jackson Blvd. Archts. est. $1,100,000. Noted July 7.

Ill., East St. Loius—OFFICE and STORE —P. J. Bradshaw, archt., International Life Bldg., St. Louis, Mo., general contract 2 story and basement, 134 x 136 ft., rein.-con., brick and terra cotta, Collinsville Rd. and Missouri Ave., here, to Murch Bros. Constr. Co., Railway Exch. Bldg., St. Louis, Mo., for Goldman Building Corp., C. E. Richardson, pres., International Life Bldg., St. Louis, Mo. Noted July 14.

Wis., Milwaukee—APARTMENT—Elms Realty Co., general contract 4 story and basement, 130 x 150 ft., rein.-con. and brick, plain foundation, 14th and Cedar Sts., to E. Steigerwald & Sons, Inc., 51st and State Sts., $150,000.

Minn., Breckenridge—COURT HOUSE—C. A. Steffes, aud., Wilkin Co., Court House, general contract 2 story and basement, rein.-con., brick and stone, here, to Redlinger & Hansen, 827 2nd Ave. S., Minneapolis, Minn. and Wahpeton, N. D., $114,800. Noted Aug. 25.

Tex., Ft. Worth—HOSPITAL—Methodist Church, c/o C. Q. Smith, chn. Hospital Comn., one unit Methodist Hospital, to Butcher & Sweeney, 806½ Taylor St., $404,399. Total $1,500,000.

Tex., Laredo—HOTEL—L. L. Stephenson, 119 Summit Ave., San Antonio, 12 story and basement addition here, to C. Schoenfeld, 324 Hunstock St., San Antonio, $400,000.

Tex., San Antonio—MERCANTILE and OFFICE—Smith Bros. Properties, Inc., c/o Plaze Hotel, general contract 25 story and basement, 110 x 140 ft., rein.-con., brick and steel, plain foundation, Bowens Island, to McKenzie Constr. Co., Travis Bldg., approximately $1,500,000. Noted Aug. 25.

Tex., Waco—HOTEL—Hilton Hotel Co., c/o C. N. Hilton, Hilton Hotel, Dallas, general contract 12 story and basement, 100 x 100 ft., brick, hollow tile, stone, steel, rein.-con. and terra cotta, here, to J. E. Johnson Constr. Co., Cameron Bldg., $291,000.

Calif., Glendale—APARTMENT—M. Dilbern, 514 South Glendale Ave., Los Angeles, 4 story and basement, 100 room, brick, Glendale Ave., to Yale Bros., 512 East Colorado St., $175,000.

Calif., Livermore — HOTEL — Livermore Hotel Co., Inc., 5 story hotel, to Elrod Constrt. Co., 354 Hobart St., Oakland, $250,000.

Calif., Los Angeles—APARTMENTS—First Natl. Holding Corp., of America, c/o R. A. Hill, archt., 301 Chester-Williams Bldg., will build 4 story and basement, brick, Hoover and Marathon Sts., by day labor and sub-contracts. $150,000.

Calif., Los Angeles—APARTMENT—F. Sward, 351 South Western Ave., will build 4 story and basement, brick, Clinton St., by day labor. $150,000.

Calif., Los Angeles—HOTEL—J. M. Close, 241 North Western Ave., will build 5 story, brick, Patton St., by day labor. $150,000.

Calif., Los Angeles—MOTION PICTURE STUDIO—Mack-Sennett Co., 2 story, 100 x 125 ft. administration building, shops, property buildings, film laboratory, etc., Ventura Blvd., to Austin Co. of California, 777 East Washington St., approximately $350,000. Noted Aug. 11.

Calif., Oakland — HOTEL—G. L. Rosebrook, archt., 1404 Franklin St., 6 story and basement, Class "A," Lake Merritt Dist., to Elrod Constr. Co., 354 Hobart St., approximately $175,000. Owners name withheld.

Calif., Oakland—STORES—J. L. Markzen, 735 Lakeshore Ave., 1 story, rein.-con., Lakeshore Ave., to L. J. Cohn, 117 Montgomery St., San Francisco, $150,000.

Buildings—Industrial

Proposed Work

Mass., Attleboro — PAPER MANUFACTURING PLANT—Amer. Reinforced Paper Co., County St., takes bids about Sept. 1, brick and steel, plain foundation, Starkey Ave. $50,000. C. T. Main, 201 Devonshire St., Boston, archt. Noted Aug. 4.

Mass., Brighton (br. Boston)—PLANT—Aug. 31, by Boston Ice Co., 110 State St. Boston, 1 story, 100 x 170 ft., brick and limestone, North Beacon St., here.

Mass., Monson — MILL — A. D. Ellis & Sons, 288 Main St., soon lets contract 3 story, 40 x 120 ft., brick addition. $50,000. McClintock & Craig, 458 Bridge St., Springfield, archt.

N. Y., Rochester — POWER PLANT — Rochester Lake Ontario Water Co., 16 Main St., having plans prepared 1 story, 200 x 200 ft., brick and steel power house. $1,000,000. J. G. White Co., 43 Exch. Pl., New York City, engrs.

N. J., Newark — PLANT — Tung-Sol Lamp Wks., Inc., 95 8th St., plans plant addition, High St. and 7th Ave. $60,000. Engineer and architect not selected.

Pa., Phila.—BAKERY, GARAGE, etc.—C. B. Comstock, archt., 110 West 40th St., New York City, soon lets contract 3 story and basement bakery; 1 story, 61 x 191 ft. garage; and 2 story, 93 x 189 ft. stable, etc., all rein.-con., brick and steel, Godfrey St. and Rising Sun Ave., for General Baking Co., Broad St., Butler. Noted Aug. 4.

Pa., Phila.—FACTORY—Central Constr. & Supply Co., 2224 Arch St., having plans prepared by Poggi & Winters, Equitable Bldg., 3 story and basement, 104 x 156 ft., brick and steel, plain foundation, Belmont and Thompson Sts.

Md., Baltimore — FACTORY — Fish Dry Cleaning Co., Inc., Pennsylvania Ave. near North Ave., plans 1 story brick and steel, plain foundation, on 135 x 411 ft. site, 25th St. and Cecil Ave. $100,000. Engineer and architect not selected.

Mississippi and Tennesse — CHEESE FACTORY, etc. — Kraft Cheese Co., 402 Rush St., Chicago, Ill., plans cheese factories and milk by-products plants at New Albany, Miss., Durant, Miss., Houston, Miss., Louisville, Miss. and Dyersburg, Tenn. $1,000,000.

Buildings—Industrial (Continued)

O., Ashtabula—FACTORY—Aetna Rubber Co. plans factory. $50,000.

Mich., Flint — FACTORY — Chevrolet Motor Co. soon lets contract 1 story, 200 x 500 ft., brick and steel addition, plain foundation. Wright & Nice, 4339 South Saginaw St., archts.

Ill., Chicago — AUTO SERVICE — Chicago-Nash Co., 2431 South Michigan Ave., having plans prepared by G. W. Klewer, 5 North La Salle St., 3 story and basement, 170 x 200 x 316 x 376 ft., rein.-con., brick, steel and terra cotta, incl. boiler room, 24th St., Prairie and Indiana Aves.

Neb., Ralston—BRICK PLANT—Kritenbrink & Son, 13th and Frederick Sts., having plans prepared and soon take bids brick plant. $100,000. Private plans.

Ont., Hamilton—FACTORY—Hutton & Souter, archts., 6 James St. S., takes bids about Sept. 1, 5 story, 260 x 280 ft., rein.-con., steel and brick, in East Hamilton, for Firestone Tire Co., 31 Cannon St. E.

Ont., Kitchener — FACTORY — B. H. Prack, archt., 42 James St. N., Hamilton, soon lets contract 3 story, 200 x 250 ft., brick, steel and concrete addition, King St. W., here, for Canadian Goodrich Co., Ltd., 521 King St., W., T. B. Tomkinson, genl. mgr. $150,000.

Ont., London—BREWERY—Carling Export Brewing Co., Talbot St., C. Burns, genl. mgr., plans 1 story, 60 x 75 ft., brick and steel addition. $50,000. Private plans.

Ont., London—FACTORY—C. S. Hyman Tannery Co., Richmond St., W. F. D. Jarvis, genl. mgr., plans rebuilding 1 story, 150 x 350 ft. factory, Richmond St., recently destroyed by fire. $250,000. Private plans.

Ont., Oshawa—GLASS FACTORY—Hutton & Souter, archts., 6 James St., Hamilton, take bids about Sept. 1, 1 story, 100 x 150 ft., brick, steel and concrete extension, Front St., here, for Phillips Co. $40,000.

Bids Desired

Conn., Bridgeport—REPAIR and SERVICE STATION—F. L. Mills Co., 2316 Fairfield Ave., taking bids 1 story, 100 x 200 ft., brick and steel, plain foundation. Dewey Sq. F. Thompson, Inc., 542 Fairfield Ave., archts. Noted Aug. 11.

N. J., New Brunswick—DYE PLANT—See "Contracts Awarded."

Pa., Phila.—SUB-STATION—Sept. 6, by J. I. Windrim, archt., Commonwealth Trust Bldg., 2 story and basement, 60 x 80 ft., rein.-con., brick and steel, concrete foundation, Westmoreland and Fox Sts., for Phila. Electric Co., 10th and Chestnut Sts.

Tenn., Old Hickory—SILK FACTORY—See "Contracts Awarded."

Ind., Muncie—FACTORY—Indiana Steel & Wire Co., South Council St., taking bids three 1 and 2 story, reni.-con. buildings, East Main St. $55,000.

Wis., Kewaunee — FACTORY — Leyse Aluminum Co., A. Leyse, mgr., taking bids 2 story and basement, 56 x 97 ft., rein.-con., brick and steel, plain foundation. Private plans. Noted Aug. 11.

Ia., Iowa City — HEATING PLANT — Sept. 9, by State Bd. Educ., State House, Des Moines, W. H. Gemmill, secy., rein.-con. and brick addition for college, here. $160,000. Proudfoot, Rawson & Souers, Hubbell Bldg., Des Moines, archts. Noted July 28.

Mo., Kansas City—WAREHOUSE and OFFICE—See "Contracts Awarded."

Tex., San Antonio—DISTRIBUTING and POWER SUB-STATIONS—See "Contracts Awarded."

Ont., Toronto — FACTORY — Harkness, Loudon & Hertzberg, engrs., Confederation Life Bldg., taking bids 3 story and basement, 70 x 130 ft., rein.-con. and steel, for Telfer Paper Box Co., Ltd., 17 Duncan St. $150,000.

B. C., Vancouver — DRY KILNS — See "Contracts Awarded."

Contracts Awarded

Mass., Marlboro — CIDER MILL and CANNING FACTORY—J. E. Rich, Main St., 1 story, rein.-con. and brick, plain foundation, Northboro Rd., to L. T. LePage, 80 Florence St. Archts. est. $40,000. Noted July 28.

Conn., New Haven — BAKERY — G. Emanuelson, 19 Townsend Ave., 2 story, 92 x 95 ft., brick and steel, State St., to C. W. Murdock, Inc., 505 Grand St. Archts. est. $50,000. Noted July 21.

N. J., Irvington (br. Newark) — FACTORY—Asher Mfg. Co., 212 Coit St., general contract 1 story, 60 x 175 ft., brick and steel addition, plain foundation, to Enstice Bros., 111 Academy St., Newark. Archts. est. $40,000.

N. J., New Brunswick—DYE PLANT—New Staten Island Dye Wks., 16 Harvey St., will build 2 story, 100 x 100 ft., brick and steel, plain foundation, Harvey St. $40,000. Work will be done by separate contracts. H. Bach, 68 Schureman Ave., archt. Noted July 14.

N. J., West New York (Ind. br. Weehawken)—FACTORY—Diamond Silk Dyeing & Finishing Co., 690 Johnson Pl., general contract 1 story, 100 x 100 ft., brick and steel, plain foundation, Johnson Pl., to Auf Der Heide Constr. Co., 443 16th St. Archts. est. $50,000.

Pa., Phila. — FACTORY and WAREHOUSE — J. G. Lorenz Corp., 1011 Chestnut St., 1 and 2 story, 40 x 97 ft., 50 x 265 ft., and 33 x 97 ft., rein.-con., brick and steel, plain foundation, 33rd and Reed Sts., to Farrell-Roth Co., 21st and Walnut Sts. Archts. est. $100,000. Noted Aug. 11.

Pa., Phila. — MANUFACTURING — Otis Elevator Co., Otis Bldg., 3 story and basement, 60 x 162 ft., rein.-con. and brick, plain foundation, 19th and Buttonwood Sts., to Doyle & Co., 1519 Sansom St. Noted Aug. 11.

Tenn., Nashville—WAREHOUSE—J. R. Love, Arcade Bldg., 2 story, brick and rein.-con., 522-8th Ave. S., to Sumner Constr. Co., 155-4th St., $40,000. Firestone Tire & Rubber Co., 1150 Broad St., lessee.

Tenn., Old Hickory—SILK FACTORY—duPont Rayon Co., Wilmington, Del., will build (3rd unit) rayon plant, here, by day labor. Archts. est. $4,000,000. duPont Eng. Co., duPont Bldg., engrs. Noted Aug. 18.

O., Cleveland — FACTORIES — H. M. Morse Co., archts., Finance Bldg., two 4 story and basement, 66 x 121 ft. and 80 x 100 ft., brick and steel, Foster Ave., to Bolton-Pratt Constr. Co., 7113 Euclid Ave., for Marble & Shattuck Chair Co., T. W. Foote, mgr., 10200 Foster Ave. Archts. est. $200,000. Noted June 30.

O., Cleveland—FACTORY—Watson and associates, 4614 Prospect Ave., 1 and 3 story, 66 x 157 ft., brick, steel and rein.-con., 3917 St. Clair Ave., to Hecker-Moon Co., 8701 Union Ave. Archts. est. $100,000.

Ind., Auburn—AUTO SERVICE—Auburn Auto Co., general contract 2 story, 70 x 280 ft., rein.-con., brick and steel, to J. R. Muhn, Auburn. Archts. est. $150,000.

Ind., Evansville — GLASS PLANT — Graham Glass Co., 1 story, 160 x 250 ft., steel addition, to Rust Engraving Co., 311 Ross St., Pittsbrgh, Pa. Archts. est. $150,000

Ind., Ligonier—FACTORY—Ligonier Refrigerator Co., general contract 3 story and basement, 50 x 95 ft., rein.-con., brick and steel, to W. R. Dunkin & Son, Huntington. Archts est. $100,000. Noted Aug. 4.

Mich., Detroit — LAUNDRY — Colonial Laundry Co., Hendrie and St. Aubin Sts., 1 and 2 story, 171 x 200 ft., rein.-con. brick, steel and concrete, St. Aubin and Hendrie Sts., to Austin Co., 11-243 General Motors Bldg.

Mich., Detroit—WAREHOUSE—A. Kahn, archt., 1000 Marquette Bldg., 3 story, 171 x 381 ft., rein.-con. and brick, plain foundation, East Grand Blvd., to Everett Winters Co., 1651 East Grand Blvd., for Packard Motor Car Co., East Grand Blvd. Noted Aug. 25.

Mich., Muskegon — NEWSPAPER PLANT—Booth Publishing Co., 2500 Buhl Bldg., Detroit, 2 story and basement, 56 x 140 ft., Clay Ave., here, to Strom Constr. Co., Houseman Bldg., Grand Rapids, $183,000.

Kan., Wichita — BAKERY — General Baking Co., 342 Madison Ave., New York City, N. Y., general contract 2 story and basement, 140 x 150 ft., rein.-con., brick and stone, Central and Frisco Sts., here, to Bickel Contg. Co., 903 Pioneer Bldg., Kansas City, Mo. Archts. est. $150,000.

Mo., Kansas City—WAREHOUSE and OFFICE—Kansas City Pub. Serv. Co., 15th St. and Grand Ave., will build 1 and 2 story, 75 x 135 ft., rein.-con., brick and stucco, 40th and Summit Sts., by day labor. Private plans.

Tex., San Antonio—DISTRIBUTING and POWER SUB-STATIONS — San Antonio Pub. Serv. Co., c/o E. H. Kifer, San Antonio, and Comal Power Co., New Braunfels, will build 2 power distributing substations south of Cementville on north side, and one on Babcock Rd., $50,000 incl. equipment; also power sub-station, on McCullough Ave., $75,000 incl. equipment, all brick, concrete and tile, by day labor. Private plans.

Ont., Hamilton—SHOP, STORE, etc.—Hamilton Street Railway Co., Terminal Sta., 1 and 2 story, 85 x 250 ft., 80 x 200 ft., and 200 x 400 ft. cement and steel shops, stores and car barns, Wentworth St., to W. H. Cooper, 6 Hughson St. N.; steel, to Hamilton Bridge Co., Bay St. N. Engrs. est. $400,000.

B. C., Vancouver—DRY KILNS—Alberta Lumber Co. Ltd., 790 6th Ave. W., will build six 12 x 120 ft. dry kilns, timber, False Creek, by day labor. $50,000. Private plans.

Buildings—Educational, Religious

Proposed Work

Mass., East Boston (Sta. Boston) — SCHOOL — Our Lady of Mt. Carmel, 124 Gove St., having sketches made by R. Gorriani, 175 Green St., Worcester, brick, plain foundation. $150,000.

Mass., Everett (br. Boston)—SCHOOL—Lady of Grace Parish, T. J. Walsh, pastor, soon lets contract 3 story and basement, 60 x 125 ft., brick, steel and limestone, Nicol St. $200,000. M. Sullivan, 100 Boylston St., Boston, archt. Noted July 28.

Mass., Newton (Boston P. O.)—SCHOOL—City, E. O. Childs, mayor, City Hall, takes bids after Sept. 10, 2 story and basement, brick and stone, plain foundation, Pine Grove Rd. and Grove St. $150,000. Henry & Richmond, 12 West St., Boston, archts.

Mass., West Bridgewater — CHURCH — St. Thomas Aquinas Church, F. S. Hart, pastor, having plans prepared by M. Sullivan, 100 Boylston St., Boston, probably brick and stone, West Center St. $150,000.

R. I., Providence—CHAPEL and PARISH HOUSE — Central Congregational Church, Angel St., will not construct 1 story and basement addition, Deman Pl. and Stimpson Ave. Project abandoned. Carrere & Hastings, 52 Venderbilt Ave., New York City, archts. Noted Apr. 14.

R. I., Warwick—SCHOOL—School Com. having preliminary plans prepared by Hutchins & French, 11 Beacon St., Boston, Mass., 2 story and basement, rein.-con., brick and stone, plain foundation, Lakewood Dist. $150,000.

Conn., Storrs—COLLEGE—State Building Comn., State House, Hartford, soon takes bids 3 story and basement, brick plain foundation, at Connecticut Agricultural College, here. $354,000. D. K. Perry, 17 Court St., New Britain, archt. Noted June 30.

N. Y., Nyack—SCHOOL—Bd. Educ. having plans prepared by E. Sibley, Bluff Rd., Palisade, N. J., 2 story, brick, and steel, plain foundation, Midland and 5th Aves. $600,000. Noted May 19.

N. Y., Rochester—HIGH SCHOOL and CONVENT—J. F. Warner, archt., 1023 Granite Bldg., soon lets contract high school and convent, Clover and Blossom Rds., for Sisters of Mercy, 90 St. Johns Park. $350,000. Noted Jan. 13.

N. J., Passaic — HIGH SCHOOL — Bd. Educ., City Hall, plans 4 story and basement, brick and steel, plain foundation. $350,000. Engineer and architect not selected.

Pa., Mt. Lebanon (Pittsburgh P. O.) — CHURCH — Mt. Lebanon Presbyterian Church, Washington Rd., having plans prepared by T. Pringle & C. W. Tufts, Ronshaw Bldg., Pittsburgh, 1 and 2 story and basement, stone church. $225,000.

Md., Baltimore — CHURCH — All Saints Roman Catholic Church, T. B. Kenny, pastor, 4408 Liberty Heights Ave., having plans prepared by Murphy & Olmsted, 1413 H. St., Wash., D. C., 1 story, brick and stone, Liberty Heights and Montgomery Ave. $225,000.

Md., Baltimore—SCHOOL—St. Joseph's Monastery, 3601 Frederick Ave., having plans prepared by Maginnis & Walsh, 100 Boylston St., Boston, Mass., 3 story, irregular shaped, stone, 3601 Frederick Ave. $450,000.

D. C., Wash.—CHURCH—Flourney & Flourney, archts., 816 Conn. Ave. N.W., soon lets contract, general contract church, Florida Ave. and 22nd St. N.W., for Church of Pilgrims (Presbyterian). $200,000.

D. C., Wash.—CHURCH, etc.—Allen & Collins, archts., 75 Newbury St., Boston, Mass., soon lets contract general contract church and parish house, 16th and S Sts., N.W., for Universalist Natl. Memorial Church. $1,000,000

Miss., Crystal Springs—SCHOOL—Voted $150,000 bonds, brick and concrete school, for Crystal Springs Consolidated School, P. K. Brice, chn.

O., Cleveland—SCHOOLS—Election Nov. 9, $1,500,000 bonds, 3 Junior High Schools, one at West 51st St. and Gifford Ave., one on Denham Ave. and East Blvd. and other

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Buildings—Educational, Religious (Cont.)

on Berkhurst Ave. and Bosworth Rd.; $800,000 bonds, 2 elementary schools, one on East 102nd St. and Byron Ave. and other on Trush Ave. and Bosworth Rd.; also $800,000 bonds, Senior High School, West 140th St. and Lakota Ave., all foregoing 3 story and basement, brick, steel and concrete. G. M. Hopkinson, Auditorium Garage Bldg., archt.

O., Columbus—ARCHEOLOGICAL—Bd. Trustees Ohio State University, C. E. Steeb, secy., having plans prepared by J. N. Bradford, Ohio State University, 2 story and basement, 60 x 120 ft., brick, stone and concrete addition, on campus. $150,000.

O., Fremont — HIGH SCHOOL — City plans Junior High School, 3 story and basement.

O., Tiffin—INFIRM HOME—Daughters of America plans home for infirm members of order. $250,000.

Minn., Northfield—MENS DORMITORY —Carleton College, D. J. Cowling, pres., soon lets contract 2 story and basement, rein.-con., brick and cut stone dormitory. $250,000. Lieberman & Hein, 109 North State St., Chicago, Ill., engrs. Holmes & Flinn, 8 South Michigan Ave., Chicago, Ill., archts. $250,000.

Kan., Wichita — HIGH SCHOOL — Bd. Educ., J. L. Leland, secy., takes bids about Jan. 1, 2 and 3 story and basement, 250 x 535 ft., rein.-con., brick and stone, 12th St. and Arkansas River. $700,000. G. H. Thomas, 405 Wheeler-Kelly-Hagney Bldg., archt.

Tex., Galveston—NURSES' HOME—University of Texas, Austin, soon takes bids 2 story, rein.-con. and brick, for John Sealy Hospital, here. $225,000. Noted Aug. 25.

Wash., Seattle—SCHOOL—F. A. Naramore, archt., Securities Bldg., takes bids about Sept. 5, 2 story and basement, 13 classroom and assembly hall, rein.-con., steel and terra cotta, 1300 West 75th St., for Seattle School Bd. 1, Securities Bldg. $170,000.

Bids Desired

Mass., Everett (Boston P. O.)—SCHOOL —Our Lady of Grace Church, T. J. Walsh, pastor, 56 Nichols St., taking bids 3 story and basement, 60 x 125 ft., brick and stone, plain foundation, 190 Nichols St. $150,000. M. Sullivan, 100 Boylston St., Boston, archt.

N. Y., Albany—LIBRARY—Sept. 6, by Bd. Contr. & Supply, City Hall, for John A. Howe Library, Schuyler, Clinton and Broad Sts. P. J. Manwiller, secy.

N. J., New Brunswick—SCHOOL—Sept. 12, by Bd. Educ., Livingston Ave., 2 story and basement, brick and steel addition, plain foundation, Stone St. $150,000. A. Merchant, 52 Patterson St., archt.

Pa., Phila.—SCHOOL—Sept. 6, by Bd. Educ., J. D. Cassell, supt. buildings, 19th and Chestnut Sts., 3 story and basement, 73 x 167 ft., rein.-con. and brick, plain foundation, 12th and Ogden Sts. I. T. Catharine, 19th and Chestnut Sts., archt.

Ill., East St. Louis—SCHOOL—Bd. Educ. E. W. Carnady, pres., taking bids 3 story, 62 x 185 ft., brick and stone school. $350,000. J. D. Steinbach, 155 North Clark St., Chicago, archt.

Okla., Norman—LIBRARY—Sept. 14, by Bd. of Regents, 3 story and basement, rein.-con. and stone, plain foundation, on campus, State Unversity. $500,000. Layton, Hicks & Forsythe, Braniff Bldg., Oklahoma City, archts.

Contracts Awarded

Mass., Hyde Park (Ind. sta. Boston)—HIGH SCHOOL—City of Boston, Schoolhouse Dept., 3 story and basement, irregular shaped, brick and limestone, plain foundation, Greenwood St., Metropolitan and Central Aves., here, to P. Caputo, 363 Hanover St., Boston, $1,139,903. Noted Aug. 18.

Mass., West Newbury — CHAPEL and DORMITORY — House of Angel Guardian, 11 Perkins St., Jamaica Plain, 3 story and basement, brick, plain foundation, Pipestone Hill, here, to Askin & Sullivan, 560 Mass. Ave., Cambridge. Archts. est. $200,000.

Mass., Williamstown — DORMITORY — Cram & Ferguson, archts., 248 Boylston St., Boston, 3 story and basement, brick and steel, here, to Sawyer Constr. Co., 16 Arlington St., Boston, for Williams College, Inc., H. A. Garfield, pres. Archts. est. $150,000. Noted July 28.

N. J., Roselle (Ind. br. Elizabeth) — SCHOOL—Bd. Educ., Boro Hall, Chestnut St., general contract 1 and 3 story and basement, brick and steel, plain foundation, Warren St., to C. E. Bowman Co., 41 Prospect St., Ridgewood, $101,385.

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Pa., Altoona—HIGH SCHOOL—School Dist., general contract altering and constructing 2 story and basement, brick, steel and concrete addition, 5th and 6th Aves., 14th and 15th Sts., to J. C. Snyder, Altoona. Archts. est. $500,000.

Pa., Meadville—CHURCH and SUNDAY SCHOOL—First Methodist Episcopal Congregation, general contract 1 and 3 story and basement, irregular shaped, stone church and Sunday school to Natl. Concrete Fire Proofing Co., Union Mortgage Bldg., Cleveland, O. Archts. est. $150,000. Noted July 7.

Pa., Phila.—SCHOOL—Bd. Educ., J. D. Cassell, supt. buildings, 19th and Chestnut Sts., 5 story and basement, 156 x 164 ft., rein.-con., brick and steel trade school, plain foundation, Frankford and Clementine Sts., to McCloskey Co., 1620 Thompson St., $909,730. Noted Aug. 4.

Pa., Phila.—SCHOOL—Bd. Educ., J. D. Cassell, supt. buildings, 19th and Chestnut Sts., two 4 story and basement, 63 x 106 ft., rein.-con. and brick wings, plain foundation, 3rd and Mifflin Sts., to McCloskey Co., 1620 Thompson St. $348,230. Noted Aug. 4.

Pa., Reading—SCHOOL—School Bd., 8th and Washington Sts., 2 story and basement, 231 x 239 ft. school, 5th and Spruce Sts., to Gilpatrick-Dawson Co., Empire Bldg., Pittsburgh, $289,000.

W. Va., Wellsburg—HIGH SCHOOL—Bd. Educ., general contract brick and steel high school, to Banks & Brauneck Constr. Co., Boyd Bldg., Charleston, $187,000; and heating, to Stanton Heater Co., Martins Ferry, O., $30,235. Noted June 30.

O., Cleveland Heights (Warrensville P. O.) — CHURCH — Trinity Congregational Church, J. S. Heffner, pastor, 1565 East 117th St., Cleveland, 1 story, 54 x 100 ft., brick and stone, Taylor and Superior Rds., to W. Dunbar Co., 8201 Cedar Ave. Archts. est. $250,000. Noted Aug. 4.

O., Norwood (Ind. br. Cincinnati) — CHURCH—First Church of Christ, Weyer Ave., 2 story and basement, brick and rein.-con., plain foundation, Weyer St., to J. Hoover, 808 Main St., $250,000. Noted Aug. 18.

O., Youngstown—HIGH SCHOOLS—Bd. Educ., Junior High School, Ford Ave., to C. Shutrump & Son, Home Saving & Loan Bldg., $277,820; also Junior High School, Gibson Ave., to Hawkins-Donnie Co., 630 Market St., $283,959. Noted Mar. 31.

Mich., Detroit — SCHOOL—Bd. Educ., 1354 Bway. Ave., masonry contract, etc., 2 story, rein.-con., brick and steel, plain foundation, Hardin and Carstens site, to Corrick Bros., 507 Owen Bldg., approximately $150,000; heating, to J. W. Partlan, 13900 Goddard Ave., Detroit, $30,000.

Wis., Milwaukee—SCHOOL of NURSING —St. Marys Hospital, general contract 5 story and basement, 117 x 203 ft. school of nursing, Lake Dr., to Starck & Co., 130 Muskego Ave., $300,000.

Minn., Mankato—SCHOOLS—Sts. Peter and Paul Church, general contract two 2 story and basement, rein.-con., brick and stone schools, to Otto Neitge, Mankato. Archts. total est. approximately $200,000. Noted Aug. 4.

Mo., Clayton — CONVENT — Carmelite Convent, 18th and Victor Sts., St. Louis, general contract 2 story and basement, 150 x 200 ft., rein.-con. and brick, Clayton and Price Rds., to C. W. Schuler, 2838 Texas St., St. Louis. Noted Aug. 4.

Tex., Amarillo—SCHOOLS—Bd. Educ., 2 story and basement, 140 x 160 ft., brick and rein.-con. school, to Ledford & Tucker, Oliver-Eakle Bldg., $113,311, and 1 story and basement, brick and concrete school, to J. D. Singleton, Amarillo, $44,230. Noted June 9.

Okla., Edmond—SCHOOL—Central State Teachers' College, State Bldg., Oklahoma City, general contract 2 story and basement, 90 x 133 ft. physical educational school, rein.-con., brick and stone, here, to Smiser Constr. Co., 613 North Hudson St., $115,984. Noted June 23.

Calif., Belmont — CONVENT — Notre Dame Convent, general contract 2 and 3 story, steel and rein.-con., to Schuler & Masdonald, 1723 Webster St., Oakland, $210,000.

Calif., Los Angeles — CHURCH — First United Presbyterian Church, 1 story, 90 x 144 ft., with 80 ft. dome, rein.-con., West Blvd. and Washington St., to Wuster Constr. Co., 810 South Spring St., $186,000. Noted June 23.

Calif., Los Angeles — CHURCH — United Presbyterian Church, 901 South Figueroa St., 90 x 144 ft., rein.-con., Washington Blvd., to Wurster Constr. Co., Natl. City Bank Bldg., $185,600.

Calif., San Luis Obispo—SCHOOL—Bd. Trustees San Luis Obispo High School Bd., general contract remodeling 2 story and basement, 150 x 250 ft. main building into Junior College, also 1 story domestic science building and 1 story, 33 x 80 ft. shower and locker room, etc., to O. V. Eckles, 4105 43rd St., San Diego, $128,546, brick work, to H. Vandehoogan, 1135 Scofield St., Glendale, $60,928, lath and plastering to W. Cunningham, Commercial Bldg., San Jose, $41,782. Grand total $231,256. Noted July 21.

Federal Government Work

Proposed Work

N. Y., Beacon—Road—U. S. Veterans Bureau, Arlington Bldg., Wash., D. C., rejected bids Aug. 17, constructing road at U. S. Veterans Hospital 98, Castle Point, near here. Noted Aug. 4.

Calif., San Diego—Quarters—Spec. 5522 —Bureau Yards & Docks, Navy Dept., Wash., D. C., plans constructing sick officers' quarters and gate house, at Naval Operating Base (Hospital), here.

T. H., Pearl Harbor—Generating Plant Equipment—Spec. 5481—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans steam generating equipment and piping, at Naval Operating Base, (Submarine Base), here.

T. H., Pearl Harbor—Barracks—Spec. 5407—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans 5 buildings, incl. barracks, subsistence building, laundry and boilers house, at Naval Operating Base (Submarine Base), here.

Bids Desired

N. Y., Albany—Dredging—Sept. 26, by U. S. Engineer Office, Army Bldg., 39 Whitehall St., New York City, dredging in Hudson River, here; adv. E. N.-R. Sept. 1.

N. Y., Mineola—Barracks—Sept. 26, at office Constructing Quartermaster, Mitchell Field, 4 air corps barracks, etc., at Mitchell Field, here; adv. E. N.-R. Sept. 1. Noted Sept. 2, 1926, under "Wash., D. C."

Pa., Johnstown—Remodeling—Sept. 20, by Treas. Dept., at office Supervising Archt., Wash., D. C., remodeling, mailing platform, installing new lift, lighting fixtures, etc., at U. S. Post Office, here; adv. E. N.-R. Sept. 1.

D. C., Wash.—Additional Stories—Sept. 21, by Treas Dept., at office Supervising Archt., additional stories, etc. to United States Liberty Loan Building, here; adv. E. N.-R. Sept. 1.

D. C., Wash.—Steel—Sept. 8, at office A. L Flint, genl purch. office, Panama Canal, steel for bridge across Miraflories Spillway Channel.

Va., Norfolk — Enclosure — Sept. 7, by Treas. Dept., at office Supervising Archt., Wash., D. C., enclosure at Marine Hospital, here.

Ga., Atlanta—Refrigerating Plant—Sept. 13, by U. S. Veterans Bureau, Arlington Bldg., Wash., D. C., complete refrigerating plant at U. S. Veterans Hospital 48, here.

Miss., Gulfport—Roads—Sept. 20, by U. S. Veteran's Bureau, Arlington Bldg., Wash., D. C., grading, concrete roads and walks, at U. S. Veteran's Hospital 74, here. Noted Aug. 11.

Ind., Columbus — Remodeling — Sept. 15, by Treas. Dept., at office Supervising Archt., Wash., D. C., remodeling and enlarging U. S. Post Office, here. J. A. Wetmore, acting superv. archt.

Mich., Cheboygan—Retaining Walls, etc. —Sept. 13, by Treas. Dept., at office Supervising Archt., Wash., D. C., retaining walls, grading, etc. at U. S. Post Office, here. J. A. Wetmore, acting superv. archt.

Missouri—Dikes—Sept. 8, by U. S. Engineer Office, 428 Customhouse, St. Louis, 6,000 lin.ft. piling dikes or hurdles in Mississippi River, at Missouri Sister Island, here; adv. E. N.-R. Sept. 1. Noted Aug. 11.

Colo., Denver—Emergency Gates, etc.—Sept. 20, by Bureau Reclamation, two 3½ ft. x 3½ ft. high pressure emergency gates and two 50 in. riveted plate steel outlet pipes for Stony Gorge Dam, Orland Project, California. P. W. Dent, acting comr.

Calif., Los Angeles—Dredging—Sept. 21, by U. S. Engineer Office, 725 Central Bldg., dredging in Los Angeles Harbor, here.

T. H., Pearl Harbor—Chimneys—Spec. 5412—Oct. 5, by Bureau Yards & Docks, Navy Dept., Wash., D. C., rein.-con. chimneys with brick linings at Naval Operating Base, here; adv. E. N.-R. Sept. 1.

Contracts Awarded

N. Y., New York—Doors—Spec. 5389—Bureau Yards & Docks, Navy Dept., Wash., D. C., vertical rolling doors at Navy Yard, here, to Cornell Iron Wks., 36-13th St., Long Island City, $3,930. Noted Aug. 25.

Federal Government Work (Continued)

Pa., Pittsburgh—Beartrap Leaves—U. S. Engineer Office, 2 sets beartrap leaves for Lock 5, Ohio River, here, to Independent Bridge Co., Neville Island, $71,933. Noted July 28.

La., New Orleans—Earthwork—U. S. Engineer Office, 1,595,000 cu.yd. earthwork in Lower Tansas, Atchafalaya (back) and Red River Atchafalaya and Bayou Boeuf Levee Dist., incl. Nielville Crevass Levee, to Adema-Gravolet Constr. Co., Inc., Pinte-a-la-Haiche, $48,300; Glasscok Crevass, to H. B. Blanks, Angola, $57,120; McCrea Crevass Levee, from O. O. Ogden, Baton Rouge, $120,000; also winter quarters at Crevass Levee, to Dameron & Kenyon, Inc., Port Allen, $81,000. Grand total $306,420.

O., Dayton—Distribution System—Constructing Quartermaster, Wright Field, underground electric distribution system in Wright Field to R. A. Phelps, South Beloit, Ill., $34,722; pipe tunnels, to Danis-Hunt Co., 1st and Webb Sts., $38,750; roads, to Churchill-Ench Constr. Co., Lima, $25,871; also roof, side walls and floor of generator power house, to E. H. Latham Co., 447 Neilston St., Columbus, $24,678. Grand total $124,021. Noted Aug. 11.

Mich., Mt. Clemens — Barracks — Constructing Quartermaster, Selfridge Field, 2 story and basement, 25 x 38 ft., rein.-con., brick and steel, plain foundation, Selfridge Field, here, to M. H. Sobel Co., 648 Book Bldg., Detroit. Archts. est. $175,000. Noted July 21.

Ill., Chicago—Dredging—U. S. Engineer Office, Chicago, dredging in North Branch Canal, Chicago River, to Fitz Simons & Connell Dredge & Dock Co., 10 Soth La-Salle St., $21,060.

Ill., Great Lakes (mail Waukegon)—Pipe Covering—Spec. 5375—Bureau Yards & Docks, Navy Dept., Wash., D. C., pipe covering for heating system, to Asbestos & Magnesia Materials Co., 1148 West Madison St., Chicago, $25,877.

Missouri—Pile Dikes—U. S. Engineer Office, St. Louis, pile dikes in Mississippi River at Crains Island, here, to Kansas City Bridge Co., 510 Orear Leslie Bldg., Kansas City (informal offer) $117,958. Noted Aug. 11.

Mo., Kansas City—Remodeling—Treas. Dept., at office Supervising Archt., Wash., D. C., remodeling U. S. Post Office and Court House, here, to W. MacDonald Constr. Co., Syndicate Trust Bldg., St. Louis, $6,450. Noted July 21.

Mo., St. Louis—Barges—U. S. Engineer Office, 428 Custom house, 6 steel barges, to Howard Shipyard & Dock Co., Jeffersonville, Ind., $49,272. Noted Aug. 18.

Colorado—Roads—J. W. Johnson, dist. engr. Bureau Pub. Roads, Custom House, Denver, grading 1.19 mi. Mt. Evans, Chicago Creek Rd. 2, Natl. Forest Road Project Clear Creek Co., to E. H. Honnen, Box 391, Colorado Springs, $49,662; 7.3 mi. Crush Creek Section Eagle-Thomasville Natl. Forest Development Rd. Project, Eagle Co., to C. A. Switzer, Arvada, $55,814; 4.34 mi. Nut Creek Road 2, Pike Natl. Forest, Douglas and Teller Counties, to W. A. Colt & Son, Los Angeles, Calif., $59,683; and 3.46 mi. South St. Vrain 3, Natl. Forest Road Project, Boulder Co. to L. E. Smith & Co., 1425 South Gaylord St., Denver, $60,563. Grand total $225,812. Noted May 9 and 19.

California—Road—C. H. Sweetser, dist. engr. Bureau Pub. Rds., Sheldon Bldg., San Francisco, grading, etc., 11.85 mi. San Marcos Extension in Santa Barbara Natl. Forest, Santa Barbara Co., to Hollywood Granite Co., 1137 North Orange Grove Ave., Hollywood, $118,361. Noted July 28.

Calif., San Diego—Repairs—Spec. 5471—U. S. Engineer Office, repairing mooring dolphins at Naval Operating Base (Destroyer Base), to Barclay & Schaniel, San Diego, $15,265.

Cuba, Guantanamo — Gasoline Tank — Spec. 5348—Bureau Yards & Docks, Navy Dept., Wash., D. C., gasoline tank, here, to Austin Eng. Co., Inc., 564 Southern Blvd., New York City, $10,200. Noted Aug. 4.

Unclassified

Proposed Work

Shelters — Cambridge (Boston P. O.), Mass.—City, J. T. Terry, Building Dept., making plans two 1 story, concrete shelters, one at Corporal Burns Playground, and other Rindge Field. $25,000 each. E. T. P. Graham, 171 Newbury St., Boston, archt.

Airport—South Dartmouth, Mass.—E. H. Green, Rounds Hill, making plans airport, Rounds Hill. $250,000. A. B. Drake, 164 Williams St., New Bedford, engr.

Golf Course — Springfield, Mass. — City Council appropriated $100,000, 351 acre golf course, near here, for Park Comn. Engineer not selected.

Swimming Pool — Phila., Pa. — E. A. Schoeppe, archt., 1437 Spruce St., Phila., making plans rein.-con. swimming pool, 45,000 sq.ft., Baltimore Pike, near here. Owner's name withheld.

Gas Mains — Tennessee — Washington County Gas Co., Johnson City, plans gas mains from Johnson City to Elizabethton, via Milligan College and Happy Valley. To exceed $5,000.

Swimming Pool, etc.—Cleveland, O.—City, W. R. Hopkins, city mgr., plans swimming pool and bath house. $350,000. S. Newman, City Hall, engr.

Tunnel—Michigan and Ontario—Detroit River Subways Co., Windsor, Ont., making plans 1 mi. vehicular tunnel, 30 in. diam., 24 ft. roadway from Detroit, Mich. to Windsor, Ont. $10,000,000. Parsons, Klapp, Brickerhoff & Douglas, 84 Pine St., New York City, engrs.

Grade Separation—Pontiac, Mich.—Grand Trunk Ry., J. A. Herman, 400 East Jefferson Ave., Detroit, making plans grade separation by constructing 3 track steel and concrete bridge, 40 ft. clear roadway, etc. here. $100,000.

Fire and Police System—St. Paul, Minn.—See "Buildings-Commercial"

Gas Pipe Line—Texas—San Angelo Gas Serv. Co., San Angelo, made plans 73 mi. natural gas pipe line from North Coleman Co. fields to Miles. $300,000. Private plans.

Gas Pipe Line—Texas and Oklahoma—Phillips Petroleum Co., Borger, made plans 20 mi. gas pipe line from point near Borger, Tex. to Bartlesville, Okla. $175,000. Private plans.

Plant Electrification — Amarillo, Tex. — Reagan County Purchasing Co., c/o H. J. Corcoran, pres. (subsidiary of Marland Gas & Oil Co., Ponca City, Okla.), making surveys, etc. electrification pumping equipment in oil fields on Edwards Plateau in Trans-Pecos fields. $250,000. Private plans.

Transmission Lines—Eastland, Tex.—Oil Belt Power Co., c/o J. E. Lewis, making plans 265 mi. high power transmission lines radiating from here. $300,000. Private plans.

Oil Pipe Line — Wichita Falls, Tex. — Wichita Pipe Line Co., c/o City Natl. Bank Bldg., making plans and takes bids in September, 35 mi. 10 in. oil pipe line west of here. $125,000. Private plans.

Gas System—Alva, Okla.—Empire Gas Co., Bartlesville, plans natural gas system, here. $75,000. Private plans.

Gas System—Mooreland, Okla. — City made preliminary plans natural gas distribution system. $40,000. H. Dunbar, mayor. Engineer not selected.

Grain Elevator—Oklahoma City, Okla.—Oklahoma City Mill & Elevator Co., 1st and Francis Sts., had preliminary plans prepared new grain elevator. $75,000. S. Draper, secy. Engineer not announced.

Gas System—Shattuck, Okla.—Empire Gas Co., Bartlesville, plans natural gas system, here. $45,000. Private plans.

Underpass—Shawnee, Okla.—Making preliminary plans 2 span 88 ft. rein.-con. underpass under tracks Santa Fe R.R. on Highland Ave. $40,000. F. D. Brown, Shawnee, engr.

Gas System—Woodward, Okla.—Winchester Oil Co., Blackwell, plans natural gas system, here. $60,000. Private plans.

Wharf and Sheds—Vancouver, B. C.—W. G. Swan, engr., 718 Gran St., takes bids Sept. 15, new industrial and shipping area, incl. 700 x 200 ft. wood pile and timber wharf, sheds, etc., on Coal Harbor, for Great Western Timber Corp., c/o engineer. $225,000.

Bids Desired

Track Installation, etc. — New York — Sept. 9, by Bd. Transportation, J. H. Delaney, chn., 49 Lafayette St., New York City, tracks and other work for parts 14th St.-Eastern Line Rapid Transit R. R., Brooklyn and Queens Boros.

Station Finish—Brooklyn, N. Y.—Sept. 16, by Bd. Transportation, J. H. Delaney, chn., 49 Lafayette St., New York City, station finish for part 14th St.-Eastern Rapid Transit R.R., here.

See proposal advertising on page 141

Airport—Flushing, N. Y.—See "Contracts Awarded."

Bath House—New Rochelle, N. Y.—Sept. 14, at office Westchester Co. Park Comn., 72 West Pondfield Rd., Bronxville, constructing bath house at Glen Islands Park, here, Contr. 58; and plumbing, Contr. 58P. J. Downer, ch. engr.; adv. E. N.-R. Sept. 1.

Subway—New York, N. Y.—Sept. 23, by Bd. Transportation, J. H. Delaney, chn., 49 Lafayette St., constructing Sects. 1 and 2 Route 45, part Bway.-4th Ave. Rapid Transit R.R. Noted Aug. 25.

Fire Sprinklers—New York, N. Y.—Sept. 28, by Commissioner Mental Hygiene, Dept. Mental Hygiene, Capitol, Albany, automatic fire sprinklers at Manhattan State Hospital, Wards Island, here; adv. E. N.-R. Sept. 1.

Electrical Work—Willard, N. Y.—Sept. 14, by Commissioner Mental Hygiene, Capitol, Albany, electrical work, exit facilities fire stops, etc. at Willard State Hospital, here; adv. E. N.-R. Sept. 1.

Tunnel—Vancouver, B. C.—Sept. 22, by British Columbia Electric Ry. Co. Ltd., P. Lewis, purch. agt., for bridge river tunnel, boring 13,200 ft. tunnel, 12 ft. diam., surge chamber and shaft, etc.; adv. E. N.-R. Sept. 1.

Contracts Awarded

Elimination of Grade Crossing—New York—A. W. Brandt comr. Highways, Albany, eliminating grade crossing on Southern State Parkway, Sect. 1, Part 3, Nassau Co., to Westchester Constr. Co., Ft. Plain, $110,580. Noted Aug. 25.

Air Port—Flushing, N. Y.—New York City Airport, Inc. c/o T. E. Donovan, 51 East 42nd St., New York City, will construct airport, incl. landing field, golf course, hangars, machine shop (10 buildings), etc., here, by day labor. $250,000. L. C. Smith, 444 Jackson Ave., Long Island City, engr.

Hoists—Syracuse, N. Y.—T. F. Farrell, comr. Canals & Waterways, Albany, 2 motor driven hoists, to Amer. Hoist & Derrick Co., 63 South Robert St., St. Paul, Minn., $5,164. Engrs. est. $5,000. Noted Aug. 4.

Transmission Line — Texas — Central Power & Light Co., c/o Frost Bldg., San Antonio, will build 25 mi. new line from east side Fayette Co. line through Gonzales Co. to Harwood, by day labor. $100,000. Private plans.

Lighting System—Ontario, Calif.—Ornamental lighting system on A St. and Euclid Ave., etc., to Arcadia Constr. Co., Arcadia, $49,746.

Grain Elevator, etc. Vancouver, B. C.—Vernon & Buckerfield, 321-1st Ave. E., 110 x 204 ft., grain elevator and feed mill heavy timber, wood pile foundation, Rogers St. and Burrard Inlet, to Carter-Halls-Aldinger Co., 500 Beatty St., $100,000.

Materials

Bids Desired

Asphaltic Cement — Brooklyn, N. Y. — Sept. 8, by J. J. Byrne, pres. Brooklyn Boro, 400,000 gal. asphaltic cement; 4,800 cu.yd. binder stone; 4,000 cu.yd. asphalt sand; and 2,500 tons limestone or other suitable inorganic dust.

Structural Steel, etc.—Phila., Pa.—Sept. 8, by C. E. Walsh, purch. agt. Pennsylvania R.R. Co., 15 North 32nd St., West Phila., structural steel for bridges, Contr. 104-1927; frogs and crossings, Contr. 105-1927; wire fencing and nails, Contr. 106-1927; and piston heads, Contr. 107-1927.

Portland Cement—Tennessee—Sept. 16, by State Dept. Highways & Pub. Wks., Nashville, portland cement for concrete paving 45 mi. roads. C. N. Bass, highway comr.

Bids Received

Portland Cement—Minnesota—State Hy. Comn., St. Paul, Aug. 16, approximately 36,857 bbl. portland cement, from Dewey Portland Cement Co., 301 Mutual Bldg., Kansas City, Mo., at $2.52 per bbl. Noted Aug. 4.

Contracts Awarded

Water Pipe—Chicago, Ill.—City, Room 406, City Hall, 570 tons 8 in. c.i. water pipe at various city pipe yards, to U. S. Cast Iron Pipe & Fdry. Co., 122 South Michigan Blvd., $36.20.

Constr. News page 115

UNIT PRICES

On actual contracts gathered by field correspondents, also those sent in by readers

Unit Price Lists Published in August, 1927

		Issue of
Bridges	Washington	Aug. 4
Bridge	Portland, Ore	Aug. 11
Bridge	Chicago, Ill.	Aug. 11
Bridge	Oakland, Calif.	Aug. 11
Bridge	Alton, Ill.	Aug. 18
Bridge	Missouri	Aug. 18
Bridge	Norfolk, Va.	Aug. 25
Dike	St. Louis, Mo	Aug. 4
Filtration Plant	Grand Haven, Mich.	Aug. 11
Paving	Philadelphia, Pa.	Aug. 25
Paving, Road Work and Sewers.	Runnemede, N. J.	Aug. 18
Retaining Walls	Cedar Rapids, Iowa	Aug. 25
Road	Texas	Aug. 4
Road	New Hampshire	Aug. 4
Road	Port Huron, Mich	Aug. 4
Road	Wyoming	Aug. 18
Sewers	Union, N. J.	Aug. 4
Sewers	Chicago, Ill.	Aug. 4
Sewerage System	New Jersey	Aug. 18
Water Main	Houston, Tex	Aug. 4

Sidewalk, Curb, Gutter and Road Work
Mt. Ephraim, N. J.

Bids were opened by the Boro. of Mt. Ephraim, June 13, for laying sidewalks, curbs and gutters, and improving streets, from (A) New Era Concrete Co., Camden, (awarded contract); (B) Frank Sweeten, Camden; (C) John Lafferty, Haddon Heights. The unit bids are as follows:

	A	B	C
21,000 cu.yd. excav. (roadway)	$0.55	$0.60	$0.65
125,000 sq.ft. sidewalk (4 in.)	.185	.19	.19
1,600 lin.ft. curb and 48 in. gutter (6 in.)	1.25	1.30	1.60
5,400 lin.ft. curb and 36 in. gutter (6 in.)	1.00	1.10	1.20
24,000 lin.ft. curb and 24 in. gutter (6 in.)	.87	.95	.95
1,500 sq.yd. 8 in. reinforced concrete gutters	2.40	2.80	2.85
60 lin.ft. T.C. sewer	2.15	4.00	2.00
2 city inlets, complete in place	100.00	85.00	60.00
	$66,884	$71,780	$73,755

Engineering News-Record, Issue of Sept. 1, 1927

Pipe Line—Massachusetts

Bids were opened by Metropolitan Dist. Water Supply Comm., Boston, (lowest three and highest) June 3, for Contr. No. 11, constructing 24-in. pipe line from Ashland Reservoir to gate house at Framingham Reservoir No. 2 in towns of Ashland and Framingham, from (A) Antonio Mogavero, 6 Dane St., Peabody, (awarded contract); (B) Lock Joint Pipe Co., Ampere, N. J.; (C) Mark E. Kelley Co., Inc., 35 Foster St., Peabody; (D) V. J. Grande, 100 Academy Hill Rd., Boston. The unit bids are as follows:

	A	B	C	D
Connection to 48 in. outlet pipe of Ashland Reservoir (lump sum)	$1,800.00	$1,800.00	$2,170.00	$4,200.00
13,500 lin.ft. furnishing 24 in. C.I. pipe or;	5.30	.....	6.23	5.75
13,500 lin.ft. 24 in. rein. con. cylinder pipe at Ashland reservoir	.....	6.00	.....	.....
1,000 lin.ft. furnishing 20 in. C.I. pipe and special castings	4.30	5.50	5.26	5.00
13,500 lin.ft. laying 24 in. pipe and special castings	0.65	0.50	0.79	4.00
1,000 lin.ft. laying 20 in. C.I. pipe and special castings	0.65	1.30	0.65	5.00
12,500 cu.yd. earth excav., fill and refill	1.49	1.40	1.60	2.00
100 cu.yd. rock excav. and refill	5.00	4.00	7.00	8.00
Upper crossing of Framingham Reservoir No. 2 (lump sum)	900.00	1,000.00	1,750.00	2,500.00
Crossing of Boston & Albany Railroad (lump sum)	3,500.00	6,000.00	768.00	2,500.00
Connection to gate house and lower crossing of reservoir (lump sum)	11,000.00	7,000.00	6,349.00	6,000.00
10 cu.yd. furnishing and placing paving	10.00	10.00	8.00	10.00
75 cu.yd. furnishing and placing riprap	8.00	4.00	4.00	7.00
50 cu.yd. furnishing and placing concrete	20.00	30.00	20.00	12.00
120 lin.ft. furnishing and placing 18 in. C.I. culvert pipe	7.50	5.50	6.05	5.00
Furnishing and constructing three 6 in. blow-offs	150.00	200.00	200.00	100.00
Furnishing and constructing two 4 in. blow-offs	150.00	100.00	175.00	50.00
Furnishing and constructing one 2 in. air-relief	100.00	100.00	150.00	25.00
Installing 20 in. x 10 in. Venturi meter and appurtenances (lump sum)	100.00	300.00	460.00	1,200.00
Totals	$125,150	$132,010	$136,083	$186,075

Engineering News-Record, Issue of Sept. 1, 1927

Sewer—Syracuse, N. Y.

Bids were opened by City, June 30, for constructing Burnet Ave. Relief Sewer, Sherwood and Teall Ave. connections, from (A) C. T. Hookway, Weiting Bldg., (awarded contract); (B) Mondo Construction Co.; (C) Bird & Street Bros.; (D) Pepper Bros.; (E) Charles Bonn. The unit bids are as follows:

	A	B	C	D	E
700 cu.yd. excavation	$2.00	$2.00	$0.90	$3.00	$5.00
500 cu.yd. lining	2.50	4.00	3.00	4.25	1.20
500 lb. metal reinforcement	.10	.10	.10	.10	.10
50 cu.yd. concrete class "A"	12.00	25.00	22.00	30.00	22.00
50 cu.yd. concrete class "B"	10.00	22.00	18.00	28.00	20.00
8 sets manhole frames and covers	25.00	20.00	25.00	20.00	16.00
45 lin.ft. standard manhole, 2 ring	12.00	10.00	10.00	10.00	12.00
18 lin.ft. standard manhole, 3 ring	20.00	15.00	15.00	15.00	20.00
25 lin.ft. 10-in. catch basin laterals	3.00	2.50	2.50	2.00	2.00
65 lin.ft. 12-in. V. P. inlets	2.00	3.00	2.60	3.50	2.20
970 lin.ft. 66-in. reinforced concrete pipe sewer	35.00	35.00	40.00	42.00	59.00
80 lin.ft. 66-in. reinforced concrete pipe (in tunnel)	50.00	60.00	70.00	76.00	67.00
358 lin.ft. 60-in. reinforced concrete pipe	22.00	30.00	30.00	35.00	41.00
695 lin.ft. 54-in. reinforced concrete pipe	17.00	25.00	20.00	32.00	35.00
310 lin.ft. 42-in. reinforced concrete pipe	13.00	18.00	18.00	25.00	30.00
310 lin.ft. 36-in. reinforced concrete pipe	14.00	16.00	18.00	22.00	35.00
Junction Chamber-Sherwood Ave. (lump sum)	500.00	1,500.00	1,500.00	600.00	900.00
Junction Chamber-Teall Ave. (lump sum)	500.00	1,200.00	1,500.00	600.00	900.00
Diversion Chamber-Sherwood (lump sum)	1,200.00	2,000.00	2,000.00	3,400.00	2,600.00
Diversion Chamber-Teall (lump sum)	1,400.00	2,000.00	2,000.00	3,700.00	2,600.00
Alterations to manhole Beech and Canal (lump sum)	50.00	50.00	100.00	200.00	50.00
Totals	$74,766	$91,093	$92,632	$112,993	$136,264

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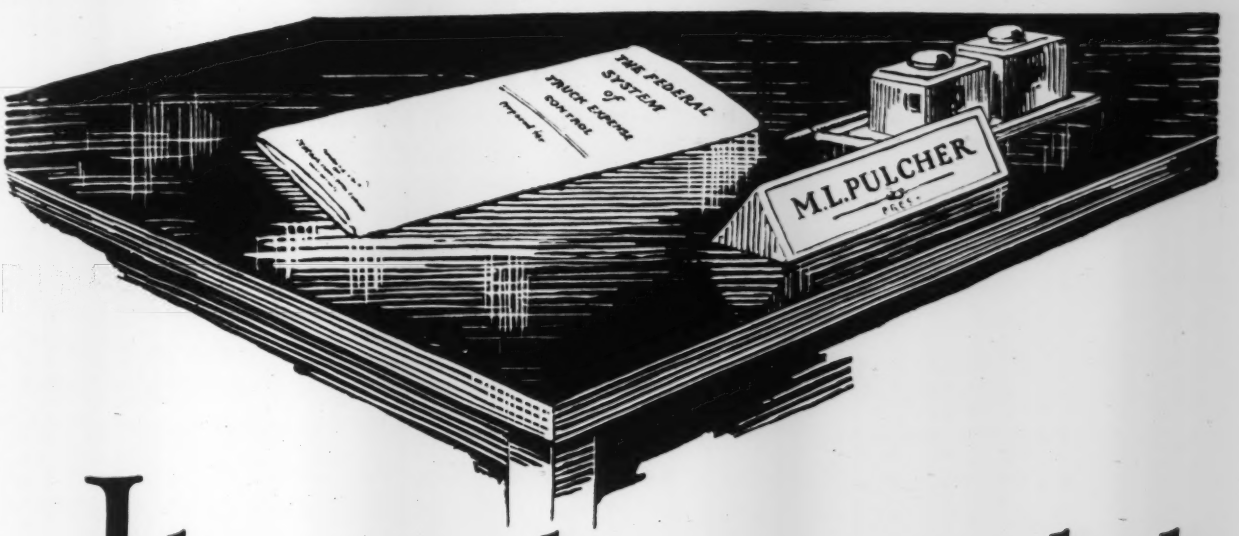
UNIT PRICES *Continued on page 116a*



I have a plan on my desk that will help Contractors cut their hauling costs and it's free—

What's the use of keeping elaborate records of truck expense if they don't really tell you anything—if they don't help you do your hauling at less cost?

Federal offers you—without cost and without any obligation on your part—a very simple plan. It tells you how to know every day what each of your trucks costs to operate—and what the cost *ought* to be. It tells you how to keep your truck expense within bounds.

It's a plan designed for busy executives who wish a sensible basis for managing fleet operation. You have your finger on other departments—why not on transportation.

M. L. Pulcher
President

The Federal System of Truck Expense Control will stop all "guessing." It makes use of your own experience as a reliable guide in judging which type and make of truck to buy. It's yours for the asking, no matter how few or how many trucks you own, or what nameplate they bear.

Clip the coupon to your letterhead and mail it today. Get this money-saving plan. Follow the lead of some of the biggest fleet operators in the country who use and indorse this system.

(124)

FEDERAL MOTOR TRUCK COMPANY
5804 Federal Avenue Detroit, Michigan

FEDERAL

ALL SIZES **TRUCKS** FOURS & SIXES

Federal Motor Truck Co.,
5804 Federal Ave., Detroit, Mich.

Please send me, *without any obligation whatever on my part*, my copy of "The Federal System of Truck Expense Control."

Firm Name.....

Attention of.....

Street Address.....

City and State.....

UNIT PRICES

On actual contracts gathered by field correspondents, also those sent in by readers

Sewage Treatment Works—Chicago, Ill.

Bids were opened by Sanitary District of Chicago, July 7, for constructing West Side Sewage Treatment Works, Divisions D and J, pumping station, tanks, grit chambers, etc., from (A) T. J. Forschner Contracting Co., 5201 West Pershing Rd., (awarded contract); (B) Mid-Continent Construction Co.; (C) Tully & Costello, 30 North LaSalle St.; (D) E. W. Sproul Construction Co., 310 South Michigan Ave. The unit bids are as follows:

Division D		A	B	C	D
50,000 cu.yd. earth excavation in open cut		2.10	1.50	3.00	1.25
3,500 cu.yd. earth excavation in tunnel		16.00	11.00	15.00	5.00
5 cu.yd. rock excavation in open cut or tunnel		5.00	5.00	5.00	5.00
75,000 cu.yd. backfilling and embanking		1.50	1.00	2.00	1.10
2,000 cu.yd. replacing top soil		2.00	1.75	2.00	1.77
1,000 cu.yd. sand or gravel fill		4.50	4.00	4.00	3.32
2,400 portions of concrete piles, 18 ft. or less in length		60.00	72.00	54.00	58.75
23,000 lin.ft. additional lengths of concrete piles over 18 ft		3.60	4.00	3.00	2.03
1,500 cu.yd. enlarged concrete pile footings		30.00	28.00	25.00	23.40
100 portions of timber piles, 20 ft. or less in length, used in composite piles		30.00	30.00	20.00	31.84
1,000 lin.ft. additional lengths of timber piles, over 20 ft. used in composite piles		1.25	1.50	1.00	1.30
100 tests for supporting capacity of piles		200.00	100.00	192.50	227.50
6,000 cu.yd. concrete, Class A		18.00	19.00	17.50	18.14
8,500 cu.yd. concrete, Class B		28.00	30.00	27.50	40.26
15,500 cu.yd. concrete, class C		28.00	32.00	28.50	50.00
500 cu.yd. concrete, Class D		14.00	14.00	14.00	14.00
1,000 bbl. additional cement, as ordered		3.00	3.00	3.00	3.00
3,600 sq.ft. granolithic finish		.25	.30	.35	.19
500 cu.yd. brick masonry		40.00	35.00	40.00	32.40
5,000 sq.ft. sheet mastic, ¼-in.		.60	.50	.45	.52
3,700,000 lb. reinforcement steel		.06	.055	.07	.09
160,000 lb. miscellaneous wrought-iron, ingot-iron and steel		.14	.15	.13	.18
75,000 lb. subway grating		.16	.17	.15	.21
60,000 lb. miscellaneous iron castings		.15	.18	.15	.22
5,000 lb. galvanizing		.06	.05	.05	.04
5,000 lb. miscellaneous brass, bronze and copper		1.00	.80	1.00	.33
1,000 lin.ft. 8-in. vitrified sewer pipe		1.00	.75	1.25	2.79
1,000 lin.ft. 12-in.		1.50	1.25	1.50	3.31
1,000 lin.ft. 24-in.		4.00	3.00	6.00	6.80
240,000 lb. cast-iron pipe, bell and spigot		.08	.10	.10	.11
63,000 lb. cast-iron pipe, flanged		.10	.13	.12	.16
100,000 lb. cast-iron specials, bell and spigot		.12	.14	.15	.23
120,000 lb. cast-iron specials, flanged		.15	.19	.15	.26
1,500 lin.ft. wrought-iron pipe and fittings, 1-in. and smaller		.60	.50	.50	.92
1,000 lin.ft.	1¼ and 1½-in.	.75	.65	.70	1.19
4,500 lin.ft.	2-in.	1.00	.85	1.20	1.28
1,500 lin.ft.	3 and 4-in.	3.00	2.25	5.00	3.86
150 lin.ft.	5 and 6-in.	6.00	4.50	8.00	9.71
1,000 lin.ft.	8-in.	9.00	7.50	9.50	11.97
1,000 lin.ft.	14-in.	18.00	16.50	18.00	24.05
5,500 lin.ft. pipe railing		3.00	2.25	3.00	2.91
125 valves, 1-in. and smaller		2.80	2.00	3.80	4.35
150	1¼ and 1½-in.	3.00	2.75	4.00	7.00
100	2-in.	4.50	4.75	5.00	10.00
10	3-in.	20.00	18.00	18.00	29.50
10	4-in.	30.00	26.00	30.00	42.80
10	5 and 6-in.	60.00	52.00	52.00	61.60
5	8-in.	80.00	69.00	70.00	102.00
1	12-in.	150.00	125.00	115.00	230.00
5 sluice gates, 6-in.		140.00	110.00	135.00	136.00
10	8-in.	175.00	165.00	155.00	157.20
30 floor stands		50.00	45.00	47.50	99.00
1,000 lin.ft. insulation for cold water piping, 2-in. and smaller		.30	.25	.50	2.10
1,000 lin.ft.	2½ to 4-in.	.60	.45	.75	2.99
1,000 lin.ft.	6 and 8-in.	1.00	.75	1.00	4.61
100 sq.ft. sidewalk lights		5.00	4.00	6.00	4.68
300,000 lb. installing sewage meter tubes furnished by Sanitary District		.04	.06	.05	.12
21 installing sewage meter registers furnished by Sanitary district		150.00	100.00	85.00	123.81
400,000 lb. installing gates and valves furnished by Sanitary District		.06	.07	.05	.13
30,000 lb. installing sludge ejectors and air receivers furnished by Sanitary District		.06	.08	.05	.10
Timber gates and miscellaneous wood work (lump sum)		4,500.00	3,850.00	5,380.00	3,885.00
Sump pump (lump sum)		1,500.00	1,750.00	1,345.00	1,139.00
Sludge and scum conveyors (lump sum)		55,000.00	49,750.00	62,000.00	46,000.00
Screenings, ejectors and storage tanks (lump sum)		45,000.00	38,300.00	42,800.00	27,000.00
Coarse screens (lump sum)		45,000.00	49,275.00	58,975.00	38,000.00

Division J		A	B	C	D
1,300,000 lb. structural steel		.09	.085	.075	.10
40,000 lb. reinforcement steel		.06	.055	.07	.09
500 cu.yd. concrete in superstructure		30.00	45.00	46.00	39.00
4,500 sq.ft. granolithic finish		.25	.30	.50	.19
100 cu.yd. concrete in sub-pier. cap		22.00	24.00	23.50	39.00
4,000 cu.ft. sub-piers		2.50	2.25	1.95	.97
Pumping station superstructure (lump sum)		796,925.00	788,200.00	831,700.00	603,000.00
Chimney superstructure (lump sum)		30,000.00	23,400.00	37,800.00	17,000.00
Electrical work (lump sum)		825,000.00	948,750.00	958,000.00	1,072,500.00
Erection of pumping equipment and air compressors (lump sum)		20,000.00	23,500.00	31,250.00	16,250.00
Thirty-five ton traveling crane (lump sum)		20,000.00	18,700.00	22,250.00	16,952.00
Ten-ton traveling crane (lump sum)		6,500.00	6,100.00	6,825.00	5,140.00
Passenger and freight elevator (lump sum)		7,000.00	5,800.00	5,250.00	8,273.00
Sewage screens		30,000.00	32,400.00	35,000.00	32,500.00
Floor grating (lump sum)		3,500.00	3,700.00	3,150.00	3,046.00
Service-water and gas piping (lump sum)		5,000.00	3,875.00	6,300.00	5,877.00
150 lin.ft. wrought-iron pipe, 2 in.		.90	.75	1.00	1.56
125 lin.ft.	2½ in. and 3 in.	1.80	2.00	1.75	3.02
200 lin.ft.	4 in.	2.75	3.00	2.50	3.75
150 lin.ft.	6 in.	5.00	4.00	5.25	8.70
125 lin.ft.	8 in.	7.00	6.50	6.25	10.23
3,000 lb. cast-iron fittings, for wrought-iron pipe		.12	.10	.11	.24
600 lb. chemical lead pipe and floor drains		.75	1.50	.80	.35
Transformer trucks (lump sum)		1,100.00	975.00	785.00	390.00
Totals by contractor		$3,827,120	$4,091,997	$4,253,743	$4,396,539
Totals by Sanitary District		$3,827,120	$3,995,997	$4,165,767	$4,414,769

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